Lesson plan of 2023-24 (3RD SEMESTER CSE)

DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: BARSHA SUBUDHI
		RAY
SUBJECT:CSA	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 01/08/23 TO DATE:
	CLASS ALLOTTED: 4	30/11/23
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 ST	Basic structure of computer hardware
	2 ND	Basic Structure of computer hardware
	3 RD	Functional Units
	4 TH	Computer components
2 ND	1 ST	Performance measures
	2 ND	Memory addressing & Operations
	3 RD	Instructions & instruction Sequencing
	4 TH	Fundamentals to instructions
3 RD	1 ST	Fundamentals to instructions
	2 ND	Operands
	3 RD	Op Codes
	4 TH	Instruction formats
4 [™]	1 ST	Addressing Modes
	2 ND	Processor System
	3 RD	Register Files
	4 TH	Complete instruction execution
5 TH	1 ST	Complete instruction execution
	2 ND	Fetch
	3 RD	Decode
	4 TH	Execution
6 [™]	1 ST	Hardware control
	2 ND	Hardware control
	3 RD	Micro program control
	4 TH	Memory System
7 [™]	1 st	Memory characteristics
	2 ND	Memory characteristics
	3 RD	Memory hierarchy
	4 TH	Memory hierarchy
8 th	1 ST	RAM and ROM organization
	2 ND	Interleaved Memory
	3 RD	Cache memory
	4 TH	Cache memory
9 TH	1 ST	Virtual memory
	2 ND	Input – Output System
	3 RD	Input - Output Interface
	4 TH	Modes of Data transfer

10 TH	1 ST	Modes of Data transfer
	2 ND	Programmed I/O Transfer
	3 RD	Programmed I/O Transfer
	4 TH	Interrupt driven I/O
11 TH	1 ST	Interrupt driven I/O
	2 ND	DMA
	3 RD	I/O Processor
	4 TH	I/O Interface & Bus architecture
12 TH	1 ST	Bus and System Bus
	2 ND	Types of System Bus
	3 RD	Data Bus
	4 TH	Address Bus Control
13 TH	1 ST	Bus Structure
	2 ND	Bus Structure
	3 RD	Basic Parameters of Bus design
	4 TH	SCSI
14 TH	1 ST	USB
	2 ND	. Parallel Processing
`	3 RD	Parallel Processing
	4 TH	Linear Pipeline
15 [™]	1 ST	Multiprocessor
	2 ND	Multiprocessor
	3 RD	Flynn [°] s Classification
	4 TH	Flynn"s Classification
DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: ABHIRAM BEHERA
SUBJECT:DS	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 01/08/23 TO DATE:
	CLASS ALLOTTED: 4	30/11/23
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 ST	Explain Data, Information, data types
	2 ND	Define data structure & Explain different operations
		Explain Abstract data types
	3 RD	Discuss Algorithm & its complexity
	4 TH	Explain Time, space tradeoff
2 ND	1 ST	Explain Basic Terminology, Storing Strings
	2 ND	State Character Data Type,
		Discuss String Operations
	3 RD	Discuss String Operations
	4 TH	Give Introduction about array,
		Discuss Linear arrays, representation of linear array
		In memory
3 RD	1 ST	Explain traversing linear arrays, inserting & deleting
		elements
	2 ND	Discuss multidimensional arrays, representation
		of two dimensional arrays in memory (row

		major order & column major order), and pointers
	3 RD	Discuss multidimensional arrays, representation
		of two dimensional arrays in memory (row
		major order & column major order), and pointers
	4 TH	Discuss multidimensional arrays, representation
		of two dimensional arrays in memory (row
		major order & column major order), and pointers
4 TH	1 ST	Explain sparse matrices.
	2 ND	Explain sparse matrices.
	3 RD	Give fundamental idea about Stacks and queues
	4 TH	Give fundamental idea about Stacks and queues
5 [™]	1 ST	Explain array representation of Stack
	2 ND	Explain arithmetic expression ,polish notation &
		Conversion
	3 RD	Explain arithmetic expression ,polish notation &
		Conversion
	4 TH	Discuss application of stack, recursion
6 TH	1 ST	Discuss queues, circular queue, priority queues.
	2 ND	Discuss queues, circular queue, priority queues.
	3 RD	Give Introduction about linked list
		Explain representation of linked list in memory
	4 TH	Discuss traversing a linked list, searching
7 TH	1 ST	Discuss traversing a linked list, searching,
	2 ND	Discuss garbage collection.
	3 RD	Explain Insertion into a linked list, Deletion from a
		linked list, header linked list
	4 ^{1H}	Explain Insertion into a linked list, Deletion from a
		linked list, header linked list
8'"	131	Explain Insertion into a linked list, Deletion from a
	210	Explain Insertion into a linked list, Deletion from a
	2BD	Inked list, header linked list
	3.05 ATH	Explain Basic terminology of Tree
OTH	4 ···	Explain Basic terminology of Tree
9	T	binary search tree, its representation and traversal,
	2 ND	Director Pipery tree, its representation and traversal
	2	hinary search tree searching
	3 RD	Discuss Binary tree its representation and traversal
	3	hinary search tree searching
		Sindly Scalen (Ice, Scalening,
	4 TH	Explain insertion & deletion in a binary search trees
10 TH	1 ST	Explain insertion & deletion in a binary search trees
	2 ND	Explain insertion & deletion in a binary search trees
	3 RD	Explain graph terminology & its representation,
	4 TH	Explain graph terminology & its representation,

11 TH	1 ST	Explain graph terminology & its representation,
	2 ND	Explain Adjacency Matrix, Path Matrix
	3 RD	Explain Adjacency Matrix, Path Matrix
	4 TH	Explain Adjacency Matrix, Path Matrix
12 TH	1 ST	Discuss Algorithms for Bubble sort, Quick sort,
	2 ND	Discuss Algorithms for Bubble sort, Quick sort,
	3 RD	Discuss Algorithms for Bubble sort, Quick sort,
	4 TH	Merging
13™	1 ST	Merging
	2 ND	Linear searching, Binary searching
	3 RD	Linear searching, Binary searching
	4 TH	Linear searching, Binary searching
14 TH	1 ST	Discuss Different types of files organization and their
		access method,
	2 ND	Discuss Different types of files organization and their
		access method,
`	3 RD	Discuss Different types of files organization and their
		access method,
	4 TH	Discuss Different types of files organization and their
		access method,
15™	1 ST	Introduction to Hashing, Hash function, collision
		resolution, open addressing.
	2 ND	Introduction to Hashing, Hash function, collision
		resolution, open addressing.
	3 RD	Introduction to Hashing, Hash function, collision
		resolution, open addressing.
	4 TH	Introduction to Hashing, Hash function, collision
		resolution, open addressing.
DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: SUMITRA
		MAHAPATRA
		SEMESTED EDOM DATE: 01/09/22 TO DATE:
SOBJECT.DE	CLASS ALLOTTED: 4	30/11/23
		NO.OF WEEKS:15
WFFK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Basics of Digital Electronics
	2 ND	Number System-Binary, Octal, Decimal, Hexadecimal
	_	- Conversion from one system to another number
		system.
	3 RD	Arithmetic Operation-Addition. Subtraction.
		Multiplication, Division, 1"s & 2"s complement of
		Binary numbers& Subtraction using complements
		method
	4 TH	Arithmetic Operation-Addition, Subtraction,
		Multiplication, Division, 1"s & 2"s complement of
		Binary numbers& Subtraction using complements
		method

2 ND	1 ST	Digital Code & its application & distinguish between
		weighted & non-weight Code, Binary codes, excess-3
		and Gray codes.
	2 ND	Digital Code & its application & distinguish between
		weighted & non-weight Code, Binary codes, excess-3
		and Gray codes.
	3 RD	Logic gates: AND OR NOT NAND NOR Exclusive-OR
		Exclusive-NORSymbol, Function, expression, truth
		table & timing diagram
	4 TH	Logic gates: AND OR NOT NAND NOR, Exclusive-OR
		Exclusive-NORSymbol, Function, expression, truth
		table & timing diagram
3 RD	1 ST	Universal Gates& its Realisation
	2 ND	Boolean algebra, Boolean expressions, Demorgan ^s
		Theorems.
	3 RD	Represent Logic Expression: SOP & POS forms
	4 TH	Karnaugh map (3 & 4 Variables)&Minimization of
		logical expressions ,don [*] t care conditions
4 TH	1 ST	Combinational Logic Circuits
	2 ND	Half adder, Full adder, Half Subtractor, Full
		Subtractor, Serial and Parallel Binary 4 bit adder.
	3 RD	Half adder, Full adder, Half Subtractor, Full
		Subtractor, Serial and Parallel Binary 4 bit adder.
	4 TH	Half adder, Full adder, Half Subtractor, Full
		Subtractor, Serial and Parallel Binary 4 bit adder.
5 [™]	1 ST	Multiplexer (4:1), De- multiplexer (1:4), Decoder,
		Encoder, Digital comparator (3 Bit)
	2 ND	Multiplexer (4:1), De- multiplexer (1:4), Decoder,
		Encoder, Digital comparator (3 Bit)
	3 RD	Multiplexer (4:1), De- multiplexer (1:4), Decoder,
		Encoder, Digital comparator (3 Bit)
	4 TH	Multiplexer (4:1), De- multiplexer (1:4), Decoder,
		Encoder, Digital comparator (3 Bit)
6 TH	1 ST	Seven segment Decoder
	2 ND	Seven segment Decoder
	3 RD	Seven segment Decoder
	4 TH	Seven segment Decoder
7 TH	1 ST	Sequential logic Circuits
	2 ND	Principle of flip-flops operation, its Types
	3 RD	Principle of flip-flops operation, its Types
	4 TH	SR Flip Flop using NAND,NOR Latch (un clocked)
8 TH	1 ST	SR Flip Flop using NAND,NOR Latch (un clocked)
	2 ND	SR Flip Flop using NAND,NOR Latch (un clocked)
	3 RD	SR Flip Flop using NAND, NOR Latch (un clocked)
	4 TH	C I o c k e d SR,D,JK,T,JK Master Slave flip-flops-
		Symbol, logic Circuit, truth table and applications
9 TH	1 ST	C I o c k e d SR,D,JK,T,JK Master Slave flip-flops-

		Symbol, logic Circuit, truth table and applications
	2 ND	C I o c k e d SR,D,JK,T,JK Master Slave flip-flops-
		Symbol, logic Circuit, truth table and applications
	3 RD	Concept of Racing and how it can be avoided.
	4 TH	Concept of Racing and how it can be avoided.
10 TH	1 ST	Registers, Memories & PLD
	2 ND	Shift Registers-Serial in Serial -out, Serial- in Parallel-
		out, Parallel in serial out and Parallel in parallel out
	3 RD	Shift Registers-Serial in Serial -out, Serial- in Parallel-
		out, Parallel in serial out and Parallel in parallel out
	4 TH	Universal shift registers-Applications
11 TH	1 st	Types of Counter & applications
	2 ND	Binary counter, Asynchronous ripple counter (UP &
		DOWN), Decade counter. Synchronous counter, Ring
		Counter.
	3 RD	Concept of memories-RAM, ROM, static RAM,
		dynamic RAM,PS RAM
	4 TH	Basic concept of PLD & applications
12 TH	1 ST	A/D and D/A Converters
	2 ND	Necessity of A/D and D/A converters.
	3 RD	D/A conversion using weighted resistors methods.
	4 TH	D/A conversion using R-2R ladder (Weighted
		resistors) network.
13 TH	1 ST	D/A conversion using R-2R ladder (Weighted
		resistors) network.
	2 ND	A/D conversion using counter method.
	3 RD	A/D conversion using Successive approximate method
	4 TH	LOGIC FAMILIES
14 TH	1 ST	Various logic families & categories according to the IC
		fabrication process
	2 ND	Various logic families & categories according to the IC
		fabrication process
`	3 RD	Various logic families & categories according to the IC
		fabrication process
	4 TH	Characteristics of Digital ICs- Propagation Delay, fan-
		out, fan-in, Power Dissipation ,Noise Margin ,Power
		Supply requirement & Speed with Reference to logic
		families.
15 TH	1 ST	Characteristics of Digital ICs- Propagation Delay, fan-
		out, fan-in, Power Dissipation , Noise Margin , Power
		Supply requirement & Speed with Reference to logic
	- 10	families.
	2 ND	Characteristics of Digital ICs- Propagation Delay, fan-
		out, fan-in, Power Dissipation ,Noise Margin ,Power
		Supply requirement &Speed with Reference to logic
		families.
	З^{кD}	Features, circuit operation &various applications of

		TTL(NAND), CMOS (NAND & NOR)
	4 TH	Features, circuit operation &various applications of
		TTL(NAND), CMOS (NAND & NOR)
DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: REETANJALI
		PANDA
SUBJECT:OOM	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 01/08/23 TO DATE:
	CLASS ALLOTTED: 4	30/11/23
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 ST	Programming Languages
	2 ND	Object Oriented Programming
	3 RD	OOPS concepts and terminology
	4 tH	Benefit of OOPS
2 ND	151	Application of OOPS
	2 ND	NTRODUCTION TO JAVA 2.1 What is Java
	3 RD	Execution Model of Java 2.3 The Java Virtual Machine
	4 ^{1H}	A First Java Program 2.5 Variables and Data types
3 ^{KD}	151	Primitive Datatypes & Declarations
	2ND	Numeric and Character Literals 2.8 String Literals
	3 ^{KD}	Arrays, Non-Primitive Datatypes
	4 ^{1H}	Casting and Type Casting
4'"	151	Widening and Narrowing Conversions
	2ND	Operators and Expressions
	3 ^{KD}	Control Flow Statements
	4'"	OBJECTS AND CLASSES 3.1 Concept and Syntax of
e TH	4 ST	
5'"	200	Defining a Class 3.3 Concept and Syntax of Methods
		Defining Methods 3.5 Creating an Object
	3~	Accessing Class Members 3.7 Instance Data and Class
	ATH	Data
СТН	4 1 ST	
0		Access specifiers
	2	Access Modifiers
	3 TH	
7 TH	4 1ST	USING JAVA UBJECTS
/		Methods and Messages
	2 2RD	Methods and Messages
		Parameter Passing
8TH	1 ST	Comparing and Identifying Objects
	2ND	
	2RD	
O TH	1 ST	
	2 ND	Single Inheritance
	2RD	Multi-level Inheritance
i de la companya de la company		

	4 [™]	Hierarchical Inheritance
10 TH	1 ST	Hybrid Inheritance
	2 ND	POLYMORPHISM
	3 RD	Types of Polymorphism
	4 [™]	Types of Polymorphism
11 TH	1 ST	Method Overloading
	2 ND	Method Overloading
	3 RD	Run time Polymorphism
	4 TH	Run time Polymorphism
12 TH	1 ST	Method Overriding
	2 ND	PACKAGES: PUTTING CLASSES TOGETHER 7.1
		Introduction
	3 RD	Java API Packages 7.3 Using System Packages
	4 TH	Naming Convention 7.5 Creating Packages
13 TH	1 st	Accessing a Package 7.7 Using a Package
	2 ND	Adding a Class to Package
	3 RD	Hiding Classes 7.10 Static Import
	4 TH	JAVA FILES AND I/O 05 8.1 What is a stream
14 TH	1 ST	Reading and writing to files(only txt files 8.3 Input and
		Output Stream
	2 ND	Manipulating Input data 8.5 Opening and Closing
		Streams
`	3 RD	Predefined streams
	4 TH	File handling Classes and Methods
15 [™]	1 ST	EXCEPTION HANDLING 9.1 Exceptions Overview
	2 ND	Exception Keywords 9.3 Catching Exceptions
	3 RD	Using Finally Statement 9.5 Exception Methods 9.6
		Declaring Exceptions
	4 TH	Defining and throwing exceptions 9.8 Errors and
		Runtime Exceptions
DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: SASMITA
SUBJECT: ES	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 01/08/23 TO DATE:
	CLASS ALLOTTED: 4	
WFFK		
1 ST		The Multidisciplinary pature of environmental
-	-	studies:
	2 ND	Definition
	3 RD	scope and importance
	4 TH	Need for public awareness
2 ND	1 ST	Natural Resources: Renewable and non-renewable
		resources: a) Natural resources and associated problems.
	2 ND	Forest resources: Use and over-exploitation,
		deforestation, case studies, Timber extraction
		mining, dams and their effects on forests and tribal
		people.
	3 RD	Forest resources: Use and over-exploitation,

		deforestation, case studies, Timber extraction
		mining, dams and their effects on forests and tribal
		people.
	4 TH	Water resources: Use and over-utilization of surface
		and ground water, floods, drought, conflicts over
		water, dam's benefits and problems.
3 RD	1 ST	. Water resources: Use and over-utilization of surface
		and ground water, floods, drought, conflicts over
		water, dam"s benefits and problems.
	2 ND	Mineral Resources: Use and exploitation
		environmental effects of extracting and using
		mineralresources
	3 RD	Mineral Resources: Use and exploitation
		environmental effects of extracting and using
		mineralresources
	Δтн	Food Resources: World food problems, changes
	–	caused by agriculture and over grazing effects of
		modern agriculture, fortilizers, posticides problems
		modern agriculture, fertilizers- pesticides problems,
A TH	1 ST	Energy Decourses: Crewing energy need renewable
4	I.	Energy Resources: Growing energy need, renewable
		and non-renewable energy sources, use of alternate
	2ND	energy sources, case studies.
	210	Land Resources: Land as a resource, land degradation,
		man induces landslides, soil erosion,
		anddesertification. B) Role of individual in
		conservation of natural resources. C) Equitable use of
		resources for sustainable life styles.
	3 RD	Systems: Concept of an eco-system.
	4 TH	Structure and function of an eco-system.
5 [™]	1 ST	Producers, consumers, decomposers. 3.4. Energy flow
		in the eco systems.
	2 ND	Ecological succession.
	3 RD	Food chains, food webs and ecological pyramids.
	4 TH	Introduction, types, characteristic features, structure
		and function of the following eco system:
6 TH	1 ST	Forest ecosystem:
	2 ND	Aquatic eco systems (ponds, streams, lakes, rivers,
		oceans. estuaries).
	3 RD	Biodiversity and it's Conservation: 4.1. Introduction-
	-	Definition: genetics, species and ecosystem diversity.
	4 TH	Biogeographically classification of India
7 TH	1 ST	Value of high versity: consumptive use productive
l í		use social ethical aesthetic and optin values
	2 ND	Value of biodiversity consumptive use productive
	2	value of biodiversity: consumptive use, productive
		Diadiustraite et ele her transferre la sella sella sella sel
	3 ""	Biodiversity at global, national and local level.
	4'"	Biodiversity at global, national and local level.

		KUMARI ACHARYA
	SEMESTED.2RD	human health.
	4 TH	Role of information technology in environment and
	-	human health.
	3 RD	Role of information technology in environment and
	2	human health.
12	2ND	Pole of information technology in environment and
15TH	4''' 1ST	Human rights.
	3 ¹¹⁰	Environment and numan health.
		Population explosion- family welfare program.
14''	1 ⁵¹	Population growth and variation among nations.
	4 TH	Human population and the environment:
	3 RD	Public awareness.
	2 ND	Water (prevention and control of pollution) Act.
13 TH	1 ST	Air (prevention and control of pollution) Act.
		studies.
		laver depletion, nuclear accidents and holocaust case
	4 TH	Climate change global warming acid rain ozone
	2 RD	Environmental ethics: issue and possible solutions
		Resettlement and rehabilitation of people; its
		shed management.
12"	131	Water conservation, rain water harvesting, water
4 0 TH	4' ⁿ	Urban problems related to energy.
	Зки	Form unsustainable to sustainable development.
	2 ND	Social issues and the Environment:
		and landslides.
11 TH	1 ST	Disaster management: Floods, earth quake, cyclone
		and landslides.
	4 TH	Disaster management: Floods, earth quake, cyclone
	3 RD	Role of an individual in prevention of pollution.
	2 ND	Role of an individual in prevention of pollution.
		measures of urban and industrial wastes.
10 TH	1 ST	Solid waste Management: Causes effects and control
	4	measures of urban and industrial wastes
		Solid waste Management: Causes, offects and control
	2RD 2RD	g) Nuclear bazards
9	2ND	e) NOISE POILUTION.
OTH	4' ⁿ	c) Soil pollution d) Marine pollution
	<u>З^{ки}</u>	a) Air pollution. B) Water pollution.
		effects and control measures of:
	2 ND	Environmental Pollution: 5.1. Definition Causes,
		wild life, man wildlife conflicts.
8 TH	1 ST	Threats to biodiversity: Habitats loss, poaching of

CSE		SEMESTER FROM DATE: 01/08/23 TO DATE:
		30/11/23 NO.OF WEEKS:15
SUBJECT:	NO.OF DAYS/PER WEEK	
DSLAB	CLASS ALLOTTED:4	
	DATE	
	DATE	TOPICS TO BE COVERED AS PER LESSON PLAN
1 ST	1 ST	Implementation of 1D & 2D Array
	2 ND	Implementation of 1D & 2D Array
	3 RD	Implementation of 1D & 2D Array
	4 ^{тн}	Implementation of 1D & 2D Array
2 ND	1 ST	Implementation of Stack
	2 ND	Implementation of Stack
	3 RD	Implementation of Stack
	4 ^{тн}	Implementation of Stack
3 RD	1 st	Pointer and it"s application.
	2 ND	Pointer and it"s application.
	3 RD	Pointer and it"s application.
	4 ^{тн}	. Pointer and it"s application.
4 TH	1 st	Structure & Union
	2 ND	Structure & Union
	3 RD	Structure & Union
	4 ^{тн}	Structure & Union
5 TH	1 st	Implementation of insertion & deletion in Stack
	2 ND	Implementation of insertion & deletion in Stack
	3 RD	Implementation of insertion & deletion in Stack
	4 TH	Implementation of insertion & deletion in Stack

6 TH	1 ST	Implementation of insertion & deletion in Queue
	2 ND	Implementation of insertion & deletion in Queue
	3 RD	Implementation of insertion & deletion in Queue
	4 TH	Implementation of insertion & deletion in Queue
7 TH	1 st	Implementation of insertion & deletion in Linked list
	2 ND	Implementation of insertion & deletion in Linked list
	3 RD	Implementation of insertion & deletion in Linked list
	4 TH	Implementation of insertion & deletion in Linked list
8 TH	1 st	Implementation of Bubble sort
	2 ND	Implementation of Bubble sort
	3 RD	Implementation of Bubble sort
	4 TH	Implementation of Bubble sort
9 TH	1 ^{s†}	Implementation of Quick sort
	2 ND	Implementation of Quick sort
	3 RD	Implementation of Quick sort
	4 TH	Implementation of Quick sort
10 TH	1 st	Implementation of Binary tree traversal
	2 ND	Implementation of Binary tree traversal
	3 RD	Implementation of Binary tree traversal
	4 TH	Implementation of Binary tree traversal
11 TH	1 st	Implementation of Linear search
	2 ND	Implementation of Linear search
	3 RD	Implementation of Linear search
	4 TH	Implementation of Linear search

12 TH	1 ST	Implementation of Binary search
	2 ND	Implementation of Binary search
	3 RD	Implementation of Binary search
	4 TH	Implementation of Binary search
13™	1 ST	Implementation of Binary search
	2 ND	Implementation of Binary search
	3 RD	Implementation of Binary search
	4 TH	Implementation of Binary search
14 TH	1 ST	Implementation of Binary search
	2 ND	Implementation of Binary search
	3 RD	Implementation of Binary search
	4 TH	Implementation of Binary search
15 TH	1 ST	Implementation of Binary search
	2 ND	Implementation of Binary search
	3 RD	Implementation of Binary search
	4 TH	Implementation of Binary search
DISCIPLINE:CSE/IT	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: REETANJALI PANDA
SUBJECT:OOP LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	1. Write a Java program to print 'Hello' on screen and then print your name on a separate line.
	2 nd	2. Write a Java program to print the sum of two numbers.
	3 rd	3. Write a Java program that takes a number as input and prints its multiplication table upto 10.

4 th	4. Write a Java program to print the area and
	perimeter of a rectangle
1 st	5. Write a Java program to swap two variables.
2 nd	6. Write a Java program to convert a decimal number
	to binary number.
3rd	7 Write a Java program to compare two
5	numbers.
4 th	8. Write a Java program and compute the
	sum of the digits of an integer.
1 st	9. Write a Java program to count the letters,
	spaces, numbers and other characters of an
and	input string.
2 ^{na}	10. Write a Java program to reverse a string.
3 rd	11. Write a Java program to accept a number
	and check the number is even or not. Prints 1
	if the number is even or 0 if the number is
	odd.
4 th	12. Write a Java program that accepts two
	integer values from the user and return the
	larger values. However if the two values are
	the same, return 0 and return the smaller
	value if the two values have the same
a ct	remainder when divided by 6
130	13. Write a Java program to get the larger
	array (length 3) of integers
γ nd	14 Design a class to represent a bank
2	account Include the following members :
	Data members: Name of the denositor
	Account Numbers Type of accounts
	Balance amount in the accounte
3 rd	Methods: To assign initial valuese. To
5	denosit an amounte To withdraw an amounte
	To display the name and balance
Δ th	Mothods: To assign initial valuese. To
	denosit an amounte To withdraw an amounte
	To display the name and balances
1 st	15 Given are two one dimensional arrays
L _	and B which are sorted in ascending order
	Write a program to merge them into a single
	sorted array C that contains every item from
	arrays A and B, in ascending order.
	4 th 1 st 2 nd 4 th 1 st 2 nd 3 rd 4 th 1 st 2 nd 3 rd 4 th 1 st

	2 nd	15. Given are two one-dimensional arrays, A
		and B which are sorted in ascending order.
		Write a program to merge them into a single
		sorted array C that contains every item from
		arrays A and B, in ascending order.
	3 rd	15. Given are two one-dimensional arrays, A
		and B which are sorted in ascending order.
		Write a program to merge them into a single
		sorted array C that contains every item from
		arrays A and B, in ascending order.
	4 th	15. Given are two one-dimensional arrays, A
		and B which are sorted in ascending order.
		Write a program to merge them into a single
		sorted array C that contains every item from
		arrays A and B, in ascending order.
6 ^h	1 st	16. Write a java program implementing
		multiple inheritance.
	2 nd	16. Write a java program implementing
		multiple inheritance.
	3 rd	16. Write a java program implementing
		multiple inheritance.
	4 th	16. Write a java program implementing
		multiple inheritance.
7 th	1 st	17. Write a java program implementing
		package.
	2 nd	17. Write a java program implementing
		package.
	3 ^{ra}	17. Write a java program implementing
		package.
	Δ th	17 Write a java program implementing
		package.
8 th	1 st	18. Write a java program to read a file line by
		line and print the line on the output screen.
	2 nd	18. Write a java program to read a file line by
		line and print the line on the output screen.
	3 rd	18. Write a java program to read a file line by
		line and print the line on the output screen.
	4 th	18. Write a java program to read a file line by
		line and print the line on the output screen.
9 th	1 st	19. Write a java program to read content from
		one file and write it into another file.

	2 nd	19. Write a java program to read content from one file and write it into another file.
	3 rd	19. Write a java program to read content from one file and write it into another file.
	4 th	19. Write a java program to read content from
		one file and write it into another file.
10 th	1 st	20. Define an exception called "No Match
		Exception" that is thrown when a string is not
		equal to "India". Write a program that uses
		this exception.
	2 nd	20. Define an exception called "No Match
		Exception" that is thrown when a string is not
		equal to "India". Write a program that uses
		this exception.
	3 rd	20. Define an exception called "No Match
		Exception" that is thrown when a string is not
		equal to "India". Write a program that uses
		this exception.
	4 th	20. Define an exception called "No Match
		Exception" that is thrown when a string is not
		equal to "India". Write a program that uses
		this exception.
11 th	1 st	20. Define an exception called "No Match
		Exception that is thrown when a string is not
		this exception.
	2 nd	20. Define an exception called "No Match
		Exception that is thrown when a string is not
		this exception.
	3 rd	20. Define an exception called "No Match
		Exception" that is thrown when a string is not
		equal to "India". Write a program that uses
		this exception.
	4 th	20. Define an exception called "No Match
		Exception that is thrown when a string is not
		this exception.

12 th	1 st	21. Develop a java project for percentage calculator/temperature conversion tool
	2 nd	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	3 rd	21. Develop a java project for percentage calculator/temperature conversion tool.
	4 th	21. Develop a java project for percentage calculator/temperature conversion tool.
13 th	1 st	21. Develop a java project for percentage calculator/temperature conversion tool.
	2 nd	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	3 rd	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	4 th	21. Develop a java project for percentage
		calculator/temperature conversion tool.
14 th	1 st	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	2 nd	21. Develop a java project for percentage calculator/temperature conversion tool.
	3 rd	21. Develop a java project for percentage calculator/temperature conversion tool.
	4 th	21. Develop a java project for percentage
		calculator/temperature conversion tool.
15 th	1 st	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	2 nd	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	3 rd	21. Develop a java project for percentage
		calculator/temperature conversion tool.
	4 th	21. Develop a java project for percentage
		calculator/temperature conversion tool.
DISCIPLINE: CSE/IT	SEMESTER: 3rd	NAME OF THE TEACHING FACULTY: Sasmita Panigrahi
SUBJECT: OA LAB	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 01/08/23 TO DATE:
	CLASS ALLOTTED:4	30/11/23 NO.OF WEEKS:15
WEEK	CLASS DAY	Create a news-paper document with at least 200

		 words, a. Use margins as, top:1.5, bottom:2, left:2, right:1 inches. b. Use heading "Gandhi Jayanti", font size: 16, font color: red, font face: Arial Black.
1 st	1 st	 c. With first letter "dropped" (use drop cap option) of the first paragraph containing a picture at the right side d. Use three columns from the second paragraph
		onwards till the half of the page. e. Then use heading "Computer basics" f. Create paragraph using two columns till the end of the page
	2 ND	Create a Mathematical question paper using, at least five equations a. With fractions, exponents, summation function
	3 RD	Create a Mathematical question paper using, at least five equations a. With fractions, exponents, summation function
	4 [™]	b. With at least one "m*n" matrix
2 ND	1 ST	c. Basic mathematical and geometric operators.
	2 ND	d. Use proper text formatting, page color and page border
	3 RD	Create a flowchart using, a. Proper shapes like ellipse, arrows, rectangle, and parallelogram.
	4 TH	Create a flowchart using, a. Proper shapes like ellipse, arrows, rectangle, and parallelogram.
3 RD	1 st	b. Use grouping to group all the parts of the flowchart into one single object
	2 ND	Create a table using table menu with, a. At least 5 columns and 10 rows
	3 RD	b. Merge the first row into one cell.
	4 TH	c. Merge the second row into one cell, then split the second row into three cells
4 [™]	1 ST	. d. Use proper table border and color.
	2 ND	e. Insert proper content into the table with proper text formatting
	3 RD	Create a table using two columns, a. The left column contains all the short-cut keys and right side column contains the function of the short- cut keys.
	4 TH	Create a table using two columns, a. The left column contains all the short-cut keys and right side column contains the function of the short- cut keys.
5 [™]	1 ST	b. Insert a left column using layout option. Name the

		heading as Serial No
	2 ND	Create two letters with the following conditions in Ms Word and find the difference.
		at least 100 words and two paragraphs. The date must be in top-right corner. Use "justify" text alignment and 1.5 line spacing for the body of the letter. Letter must contain proper
	3 RD	Create two letters with the following conditions in Ms Word and find the difference. a. Write a personal letter to your friend using at least 100 words and two paragraphs. The date must be in top-right corner. Use "justify" text alignment and 1.5 line spacing for the body of the letter. Letter must contain proper salutation and closing
	4 TH	Create two letters with the following conditions in Ms Word and find the difference. a. Write a personal letter to your friend using at least 100 words and two paragraphs. The date must be in top-right corner. Use "justify" text alignment and 1.5 line spacing for the body of the letter. Letter must contain proper salutation and closing.
6 TH	1 st	Create two letters with the following conditions in Ms Word and find the difference. a. Write a personal letter to your friend using at least 100 words and two paragraphs. The date must be in top-right corner. Use "justify" text alignment and 1.5 line spacing for the body of the letter. Letter must contain proper salutation and closing.
	2 ND	b. Use step by step mail-merge wizard to design a letter. (Mailing step by step mail merge wizard letters start from a template select template letters select proper template create new document OK)
	3 RD	b. Use step by step mail-merge wizard to design a letter. (Mailing □ step by step mail merge wizard detters start from a

		template select template letters select proper template create new document OK
	4 TH	Create a letter, which must be sent to multiple recipients.
7 [™]	1 ST	a. Use Mail-Merge to create the recipient list
	2 ND	b. Use excel sheet to enter the recipient
	3 RD	c. Start the mail merge using letter and directory format. State the difference
	4 TH	Create a table "Student result" with following conditions. a. The heading must contain, Sl. No., Name, Mark1,
		Mark2, Mark3, Total, average and result with manual entry.
8 TH	1 ST	b. Use formulas for total and average
	2 ND	c. Find the name of the students who has secured the highest and lowest marks.
	3 RD	d. Round the average to the nearest highest integer and lowest integer (use ceiling and floor function respectively).
	4 TH	Do as directed
		a. Create a notepad file as per the following fields SIno name th1 th2 th3 th4 th5 total % grade
9 TH	1 st	b. Import this notepad file into excel sheet using "datafrom text" option.
	2 ND	c. Grade is calculated as, i. If %>=90, then grade A ii. If %>=80 and <90, then grade B iii. If %>=70 and <80, then grade C iv. If %>=60 and <70, then grade D v. If %<60, then grade F
	3 RD	c. Grade is calculated as, i. If %>=90, then grade A ii. If %>=80 and <90, then grade B iii. If %>=70 and <80, then grade C iv. If %>=60 and <70, then grade D v. If %<60, then grade F
	4 TH	Create a sales table using the following data a. Draw the bar-graph to compare the sales of the three items for four years using insert option.
10 TH	1 st	b. Draw a line-graph to compare the sales of three items for four years using insert option.
	2 ND	c. Draw different pie-charts for the given data using insert option.
	3 RD	d. Use condition, to highlight all the cells having value >=1000 with red color (use conditional formatting).
	4 TH	Create a power-point presentation with minimum 5 slides.
11 TH	1 ST	a. The first slide must contain the topic of the

		presentation and name of the presentation.
	2 ND	b. Must contain at least one table.
	3 RD	c. Must contain at least 5 bullets, 5 numbers
	4 TH	d. The heading must be, font size:32, font-face: Arial
		Rounded MT Bold, font-color: blue.
12 TH	1 ST	e. The body must be, font size: 24, font-face: Comic
		Sans MS, font-color: green. f. Last slide must contain
		"thank you
	2 ND	Create a power-point presentation with minimum 10
		slides
		24
	3 RD	a. Use word art to write the heading for each slides.
	4 TH	b. Insert at least one clip-art, one picture
13 [™]	1 ST	c. Insert at least one audio and one video d. Hide at
		least two slides
	2 ND	Create a power-point presentation with minimum 5
		slides
		 a. Use custom animation option to animate the text;
		the text must move left to right one line at a time.
	3 RD	b. Use proper transition for the slides
	4 [™]	Create a database "Student" with,
		a. At least one table named "mark sheet" with field
		name "student name, roll number, mark1, mark2,
		mark3, mark4, total"
14 TH	1 st	b. The data types are, student name: text, roll
		number: number, mark1 to mark4: number, total:
		number. Roll number must be the primary key.
	2 ND	c. Enter data in the table. The total must be
		calculated using update query.
	3 RD	d. Use query for sorting the table according to the
		descending/ascending order of the total marks.
	4 TH	With addition to the table above,
		a. Add an additional field "result" to the "mark
		sheet" table.
15™	1 ST	b. Enter data for at least 10 students
	2 ND	c. Calculate the result for all the students using
		update queries, if total>=200, then pass, else fail
	3 RD	d. Search the students, whose name starts with "sh".
	4 TH	e. Show the names and total marks of the students
		who have passed the examination