

**while Loop**

**Syntax:** while(expr) statement;

**Explanation:** statement is executed repeatedly while the expression is true.

### **Example-1**

```
int i=0;
while(i<5)
{
    printf(“%d ”, i);
    i++;
}
```

it will print 0 1 2 3 4

## Example-2

```
int i=5;
while(i>0)
{
    printf("%d ", i);
    i--;
}
```

it will print 5 4 3 2 1

```
/*Program to find sum of digits of a number*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    long int n, sum=0;
```

```
    clrscr();
```

```
    printf("Enter a number: ");
```

```
    scanf("%ld", &n);
```

```
    while(n != 0)
```

```
    {
```

```
        sum = sum + n%10;
```

```
        n = n/10;
```

```
    }
```

```
    printf("\n sum=%ld", sum);
```

```
    getch();
```

```
}
```

Input	Output
573	15

```
/*Program to find reverse of a number*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
    long int n, sum=0;
```

```
    clrscr();
```

```
    printf("Enter a number: ");
```

```
    scanf("%ld", &n);
```

```
    while(n != 0)
```

```
    {
```

```
        sum= sum*10 + n%10;
```

```
        n = n/10;
```

```
    }
```

```
    printf("\n reverse number =%ld", sum);
```

```
    getch();
```

```
}
```

Input	Output
573	375