

## Looping Statements

Whenever we have to repeat certain statement several times is called loop.

### Advantages :-

- Fast execution
- Reusability
- Decrease Line of Codes
- Memory Space Less

### Types :-

- while
- do-while
- for

### While-loop :-

It is a pre-test loop, it is used when we don't know the number of iterations in advance. It is also known as entry control loop.

```
while(condition) {  
    //code block to be executed  
}
```

### Do-While-loop :-

It is a post-test loop, it is used when we want to execute loop body at least once even condition is false. It is also known as exit control loop.

```
do{  
    //code block to be executed  
} while(condition)
```

### For-loop :-

It is the most commonly used loop, it is used when we want to perform initialization, condition, increment and decrement operation in single line.

```
for(initialization; condition; increment/decrement){  
    //code block to be executed  
}
```

### Nested-For-loop :-

A for loop which contain inside for loop is called nested for loop.

```
for(initialization; condition; increment/decrement) {  
    for(initialization; condition; increment/decrement) {  
        //code block to be executed  
    }  
    //code block to be executed  
}
```