# 028 -

## **C IF ELSE STATEMENTS**

The if-else statement in C is used to perform the operations based on some specific condition.

The operations specified in if block are executed if and only if the given condition is true.

There are the following variants of if statement in C language.

If statement
If-else statement
If else-if ladder
Nested if

IF STATEMENT

some operations depending upon the correctness of that condition.

The if statement is used to check some given condition and perform

operations for the different conditions.

It is mostly used in the scenario where we need to perform the different

```
if (expression) {
    //code to be executed
}
```

IF STATEMENT SYNTAX :-

### The if-else statement is an extension to the if statement using which, we

IF-ELSE STATEMENT SYNTAX :-

**IF-ELSE STATEMENTS** 

Here, we must notice that if and else block cannot be executed simiulteneously.

can perform two different operations, i.e., one is for the correctness of

that condition, and the other is for the incorrectness of the condition.

```
if (expression) {
   //code to be executed if condition is true
```

//code to be executed if condition is false

} else {

}

# for different conditions.

IF-ELSE-IF LADDER SYNTAX :-

... else {

}

defined in the if block will be executed

In if-else-if ladder statement, if a condition is true then the statements

The if-else-if ladder statement is an extension to the if-else statement.

It is used in the scenario where there are multiple cases to be performed

the else-if block will be executed.

At the last if none of the condition is true then the statements defined in

Otherwise if some other condition is true then the statements defined in

the else block will be executed.

```
if (condition1) {
//code to be executed if condition1 is true
} else if (condition2) {
//code to be executed if condition2 is true
} else if (condition3) {
```

//code to be executed if all the conditions are false

```
}
```

//code to be executed if condition3 is true