

## C 5\_1

### 5.1 Conditional branching - if

#### 5.1.1 if statement

An if statement contains a Boolean expression and block of statements enclosed within braces.

Structure of if statement :

```
if (boolean expression )
```

```
/* if expression is true */
```

```
    statements... ; /* Execute statements */
```

If the Boolean expression is true then statement block is executed otherwise (if false) program directly goes to next statement without executing Statement block.

#### 5.1.2 if...else statement

If statement block with else statement is known as as if...else statement. Else portion is non-compulsory.

Structure of if...else

```
if(condition)
```

```
{
```

```
    statements...
```

```
}
```

```
else
```

```
{
```

```
    statements...
```

```
}
```

If the condition is true, then compiler will execute the if block of statements, if false then else block of statements will be executed.

We can use multiple if-else for one inside other this is called as Nested if-else.