

Basic of C Programming



DECISION MAKING AND BRANCHING

Conditional Statement in C -

- In C programming, if statement is used to test the condition. There are various types of if statements in C.

• Simple if statement	• Nested if-else statement
• if-else statement	• if-else-if ladder

- **Simple If Statement** - The C if statement tests the condition. It is executed if condition is true.

- ***Syntax*** -

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

Source Code of Simple - if statement -

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

```
void main ()  
{  
    int num = 10;  
    if (num % 2 == 0)  
    {  
        printf("It is even number");  
    }  
}
```

If-else Statement -



- The C if-else statement also tests the condition. It executes if block if condition is true otherwise else block is executed.

- ***Syntax –***

```
if(condition)  
{  
    //code if condition is true  
}  
else  
{  
    //code if condition is false  
}
```

Source Code of if-else statement -



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

```
void main ()
{
    int num = 10;
    if (num % 2 == 0) {
        printf("It is even number");
    }
    else {
        printf("It is odd number");
    }
}
```

Nested if-else Statement -



- A nested if is an if statement that is the target of another if statement. Nested if statements means an if statement inside another if statement.
- *Syntax –*

```
if (condition1)
```

```
{
```

```
// Executes when condition1 is true
```

```
    if (condition2) {
```

```
        // Executes when condition2 is true
```

```
    }
```

```
    else {
```

```
        // Executes when condition2 is false
```

```
    }
```

```
}
```

Source Code of if-else statement -

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i = 10;
    if (i == 10) {
        if (i < 15) {
            printf("i is smaller than 15";
        }
        if (i < 12) {
            printf("i is smaller than 12 too";
        }
        else {
            printf("i is greater than 15";
        }
    }
}
```



THANK YOU...!