**C++ if Statement**

if (testExpression)

{

// statements

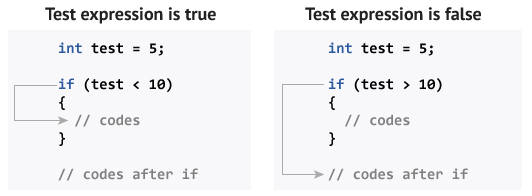
}

The if statement evaluates the test expression inside parenthesis.

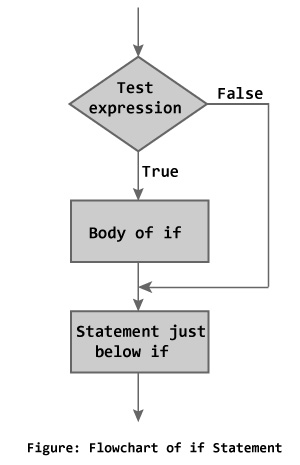
If test expression is evaluated to true, statements inside the body of if is executed.

If test expression is evaluated to false, statements inside the body of if is skipped.

**How if statement works?**



**Flowchart of if Statement**



Q1: write a program that in put marks and display the congratulation you have pass if the marks greater then 40 .

#include<iostream>

Using namespace std;

int main()

{

Int m;

cout<<” enter markes =”;

cin>>m;

if(m>40)

cout<<” congratulation you have pass”;

return 0;

}

Q2 : write a program that input two numbers and finds wether both are equal .

#include<iostream>

Using namespace std;

int main()

{

Int a,b;

cout<<” enter a number =”;

cin>>a;

cout<<” enter a number =”;

cin>>b;

if(a==b)

cout<<” both are equal”;

return 0;

}

Q 3:

#include <iostream>

using namespace std;

int main()

{

int number;

cout << "Enter an integer: ";

cin >> number;

if ( number > 0)

{

cout << "You entered a positive integer: " << number << endl;

}

cout << "This statement is always executed.";

return 0;

}

**Output 1**

Enter an integer: 5

You entered a positive number: 5

This statement is always executed.