

C++ if-else

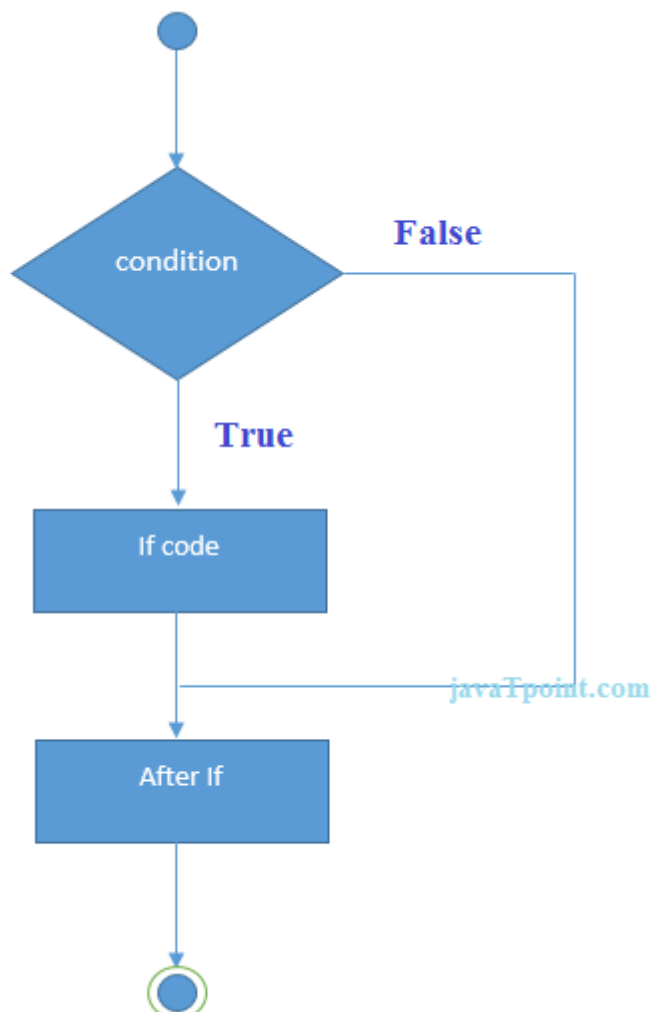
In C++ programming, if statement is used to test the condition. There are various types of if statements in C++.

- if statement
- if-else statement
- nested if statement
- if-else-if ladder

C++ IF Statement

The C++ if statement tests the condition. It is executed if condition is true.

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



C++ If Example

```
#include <iostream>
using namespace std;

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

Output:/p>

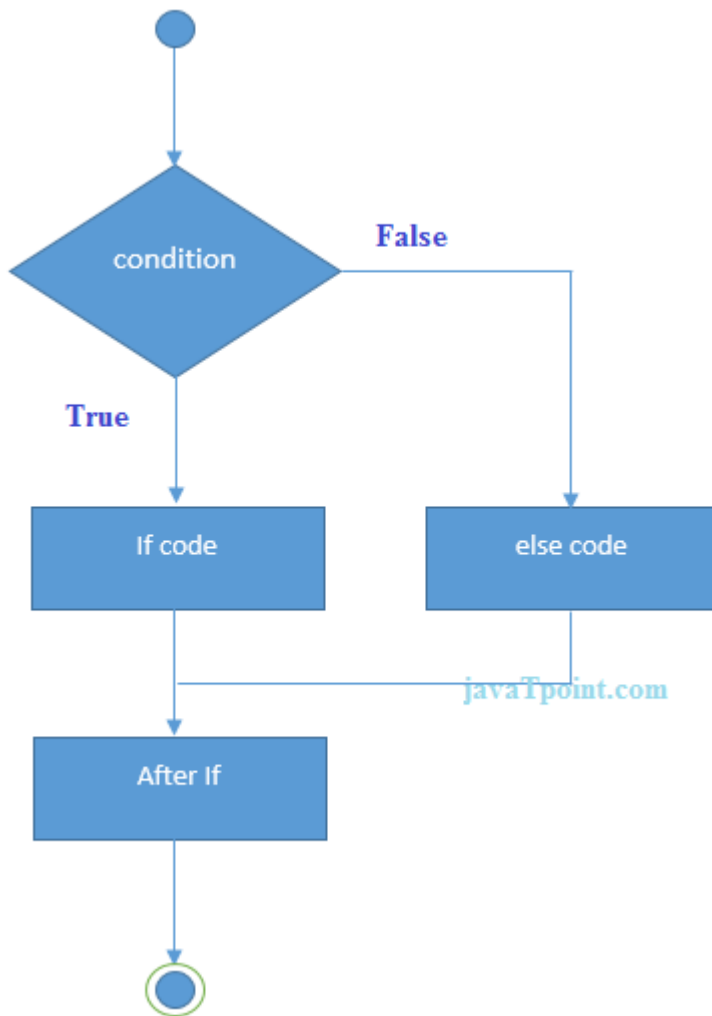
```
It is even number
```

C++ 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.

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



C++ If-else Example

```
#include <iostream>
using namespace std;
int main () {
    int num = 11;
    if (num % 2 == 0)
    {
        cout<<"It is even number";
    }
    else
    {
        cout<<"It is odd number";
    }
    return 0;
}
```

Output:

```
It is odd number
```

C++ If-else Example: with input from user

```
#include <iostream>
using namespace std;
int main () {
    int num;
    cout<<"Enter a Number: ";
    cin>>num;
    if (num % 2 == 0)
    {
        cout<<"It is even number"<<endl;
    }
    else
    {
        cout<<"It is odd number"<<endl;
    }
    return 0;
}
```



Output:

```
Enter a number:11
It is odd number
```

Output:

```
Enter a number:12
It is even number
```

C++ IF-else-if ladder Statement

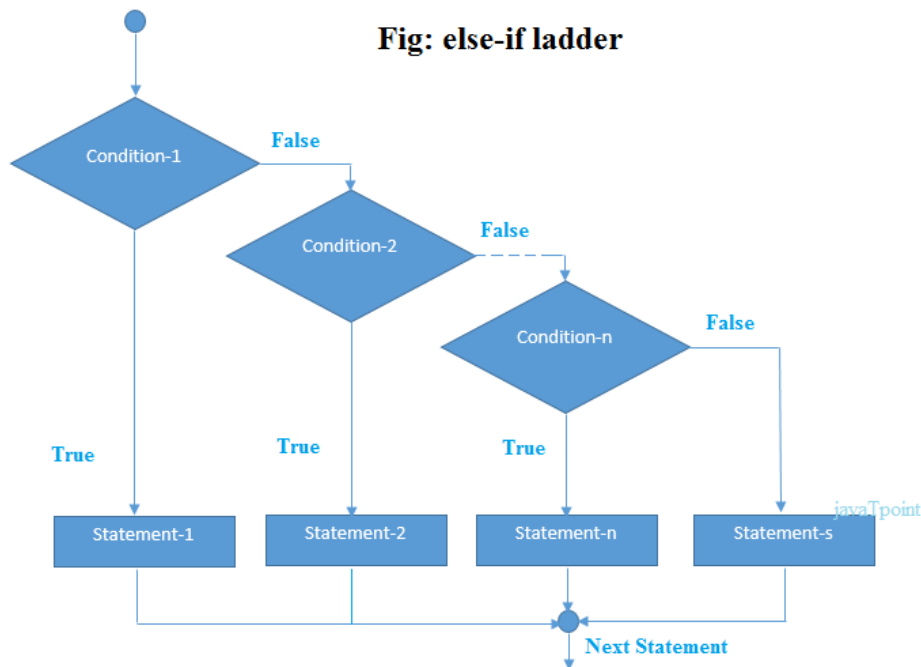
The C++ if-else-if ladder statement executes one condition from multiple statements.

```
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 condition3 is true
}
...
else{
//code to be executed if all the conditions are false
}

```



C++ If else-if Example

```

#include <iostream>
using namespace std;
int main () {
    int num;
    cout<<"Enter a number to check grade:";
    cin>>num;
    if (num < 0 || num > 100)
    {
        cout<<"wrong number";
    }
    else if(num >= 0 && num < 50){
        cout<<"Fail";
    }
    else if (num >= 50 && num < 60)
    {

```

```
        cout<<"D Grade";
    }
    else if (num >= 60 && num < 70)
    {
        cout<<"C Grade";
    }
    else if (num >= 70 && num < 80)
    {
        cout<<"B Grade";
    }
    else if (num >= 80 && num < 90)
    {
        cout<<"A Grade";
    }
    else if (num >= 90 && num <= 100)
    {
        cout<<"A+ Grade";
    }
}
```

Output:

```
Enter a number to check grade:66
C Grade
```

Output:

```
Enter a number to check grade:-2
wrong number
```

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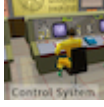


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