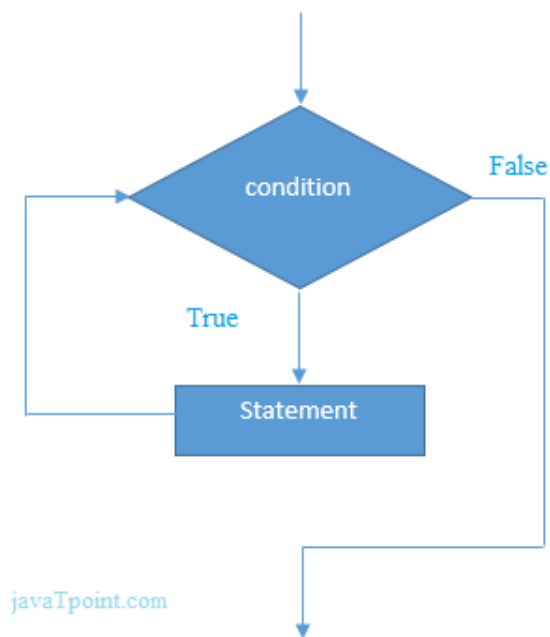


C++ While loop

In C++, while loop is used to iterate a part of the program several times. If the number of iteration is not fixed, it is recommended to use while loop than for loop.

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

Flowchart:



C++ While Loop Example

Let's see a simple example of while loop to print table of 1.

```
#include <iostream>  
using namespace std;  
int main() {  
    int i=1;  
    while(i<=10)  
    {  
        cout<<i <<"\n";  
        i++;  
    }  
}
```

Output:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```



C++ Nested While Loop Example

In C++, we can use while loop inside another while loop, it is known as nested while loop. The nested while loop is executed fully when outer loop is executed once.

Let's see a simple example of nested while loop in C++ programming language.

```
#include <iostream>
using namespace std;
int main () {
    int i=1;
    while(i<=3)
    {
        int j = 1;
        while (j <= 3)
        {
            cout<<i<<" "<<j<<"\n";
            j++;
        }
        i++;
    }
}
```

Output:

```
1 1
1 2
1 3
2 1
2 2
2 3
3 1
3 2
3 3
```

C++ Infinite While Loop Example:

We can also create infinite while loop by passing true as the test condition.

```
#include <iostream>
using namespace std;
int main () {
    while(true)
    {
```

```
        cout<<"Infinitive While Loop";  
    }  
}
```

Output:

```
Infinitive While Loop  
Infinitive While Loop  
Infinitive While Loop  
Infinitive While Loop  
Infinitive While Loop  
ctrl+c
```

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