

# While Loop

# Java

```
Whileloop.java > ...  
1  public class Whileloop {  
    Run | Debug  
2      public static void main(String[] args) {  
3          int i = 0;  
4          while (i < 5) {  
5              System.out.println(i);  
6              i++;  
7          }  
8      }  
9  }  
10
```

# Python

```
] # While Loop
```

```
i = 1
```

```
while i < 6:
```

```
    print(i)
```

```
    i += 1
```

```
1
```

```
2
```

```
3
```

```
4
```

```
5
```

# C++

```
mainloop.cpp > main()
#include <iostream>
using namespace std;

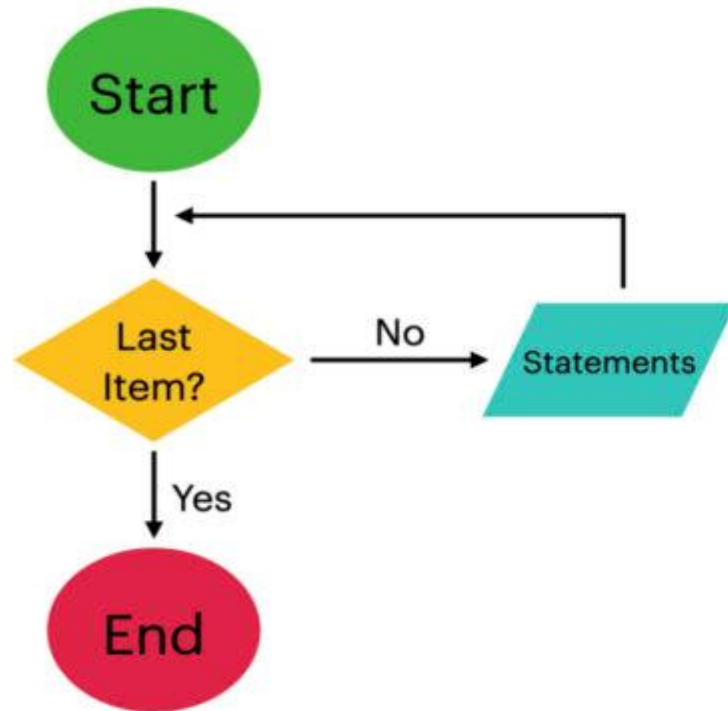
int main() {
    int i = 0;
    while (i < 5) {
        cout << i << "\n";
        i++;
    }
    return 0;
}
```

# Major difference between for loop and the while loop

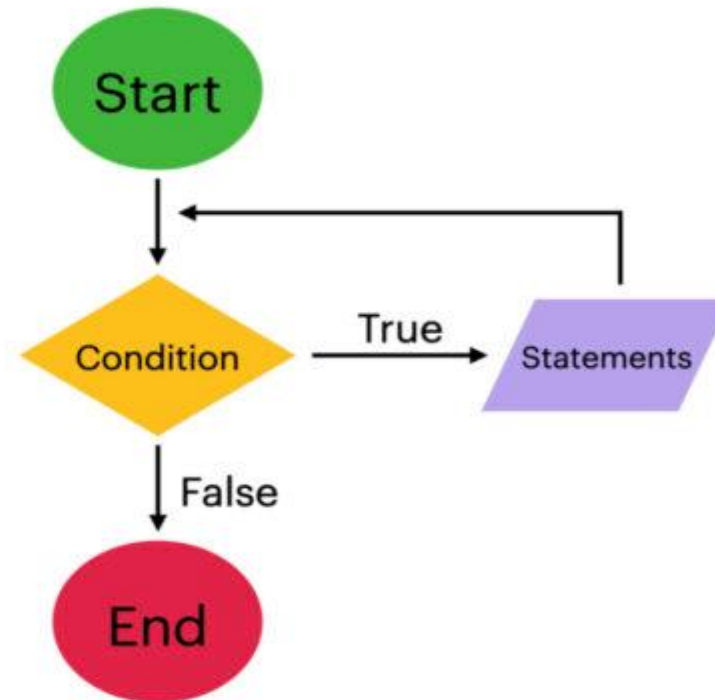
- For loop is used when the number of iterations is known, whereas execution is done
- In the while loop until the statement in the program is proved wrong.

# While vs For Loop

## For Loop



## While Loop



# Tasks.....

- Write a program to print the multiplication table of a given number.
- Write a program to print the even numbers between 1 and 50.
- Write a program to find the sum of all elements in an array of integers.
- Write a program to find the largest and smallest elements in an array of integers.
- Write a program to find the factorial of a given number.