

While Loop

Description

- ✱ Repetitively executes set of statements till the **given condition is satisfied**.
- ✱ Condition should result in **Boolean type**.
- ✱ The **set of statements** are executed once before testing for the condition in do-while, but not the same in while loop.

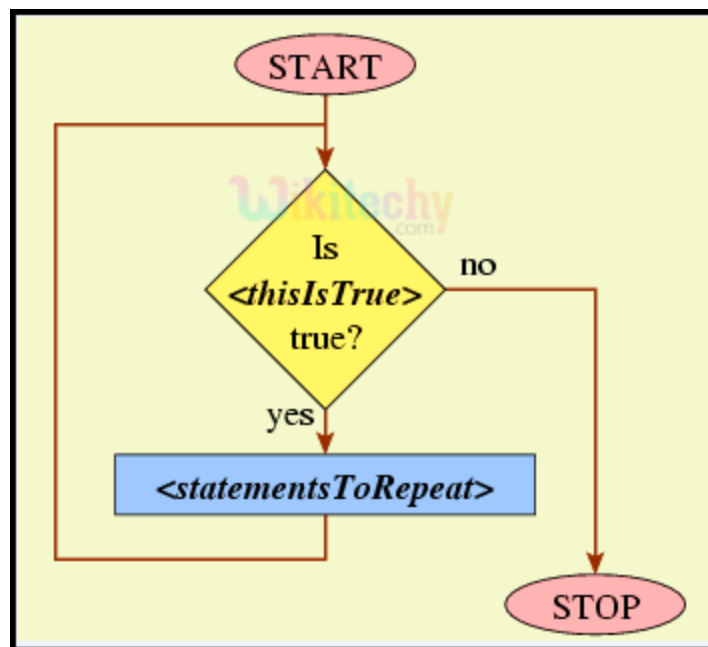


Fig1. Java While Loop

Syntax – While:

```
while (expression)
{
    \\ set of statement(s)
}
```

Sample Code:

```
public class JavaWhileLoop
{
    public static void main(String [] args)
    {
        System.out.println("\n\n WikiTechy - Using While Loop\n");
        int i = 10;
        while (i < 20)
        {
            System.out.println("i = " + i);
            i++;
        }
    }
}
```

Code Explanation:

```
public class JavaWhileLoop
{
    public static void main(String[] args)
    {
        System.out.println("\n\nWikiTechy - Using While Loop\n");
        int i = 10;
        while(i < 20)
        {
            System.out.println("i = " + i);
            i++;
        }
    }
}
```

1 Initialization of **integer variable i** is done via the code `int i = 10;`

2 While loop with a **condition on variable i** is defined as

```
while (i < 20)
{
    System.out.println("i = " + i);
    i++;
}
```

Output:

```
Administrator: Command Prompt

C:\Program Files\Java\jdk1.8.0_66\bin>javac JavaWhileLoop.java
C:\Program Files\Java\jdk1.8.0_66\bin>java JavaWhileLoop

WikiTechy - Using While Loop

i = 10
i = 11
i = 12
i = 13
i = 14
i = 15
i = 16
i = 17
i = 18
i = 19

C:\Program Files\Java\jdk1.8.0_66\bin>
```

- ✱ Hence the given while loop condition the code has been executed successfully.