



While loop

The while loop is Java's most fundamental looping statement. It repeats a statement or block while its controlling expression is true.

Objectives

Upon completion of this topic, we will be able to:

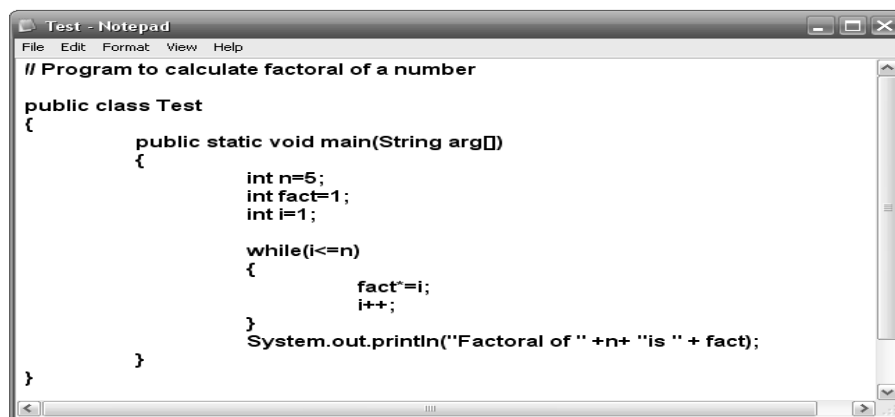
- Learn and use the while loops

While Loop

Here is its general form:

```
while (condition) {  
    // body of loop  
}
```

The *condition* can be any Boolean expression. The body of the loop will be executed as long as the conditional expression is true. When ***condition*** becomes false, control passes to the next line of code immediately following the loop. The flower brackets are unnecessary if only a single statement is being repeated.



```
Test - Notepad  
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// Program to calculate factorial of a number  
  
public class Test  
{  
    public static void main(String arg[])  
    {  
        int n=5;  
        int fact=1;  
        int i=1;  
  
        while(i<=n)  
        {  
            fact*=i;  
            i++;  
        }  
        System.out.println("Factorial of " +n+ "is " + fact);  
    }  
}
```

While loop example



Summary

Here are the key takeaways:

- The while loop uses a condition that can be any Boolean expression.
- The flower brackets are unnecessary if only a single statement is being repeated.