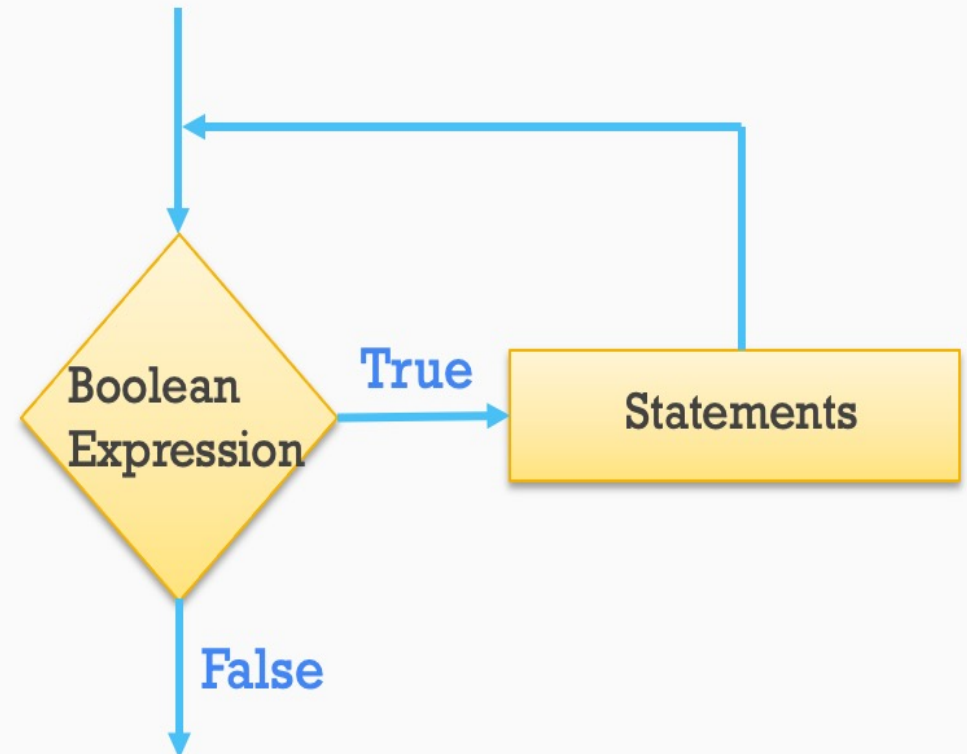




While & Do...While loops

While Loop

- Repeated If Statement
- Condition is checked at loop start
- Loop gets terminated when condition is evaluated to false



Syntax

Test this boolean expression

If the boolean expression is true,
perform these statements

```
while (number <= 5){
```

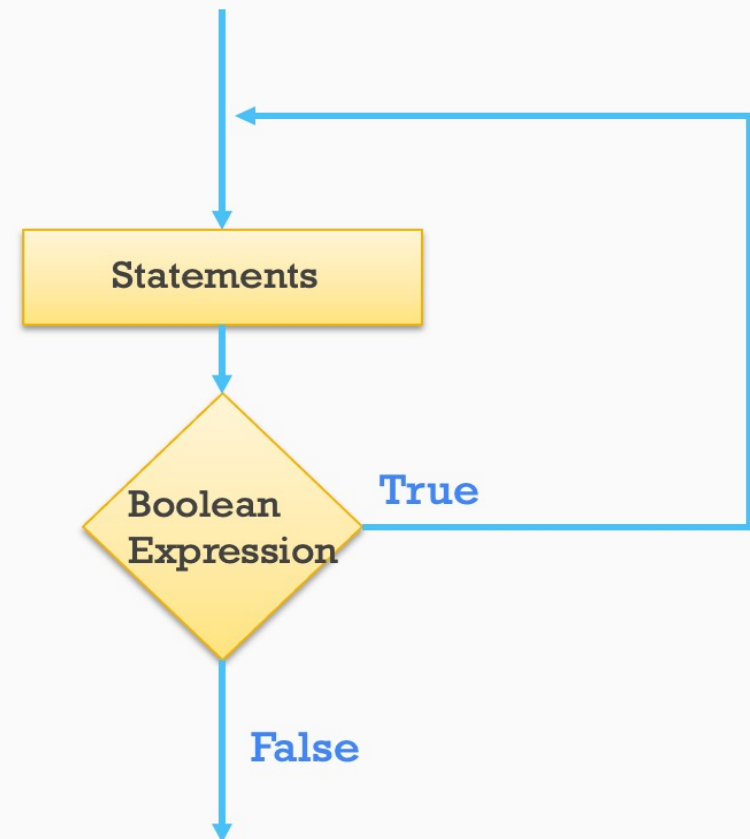
```
    System.out.println("Hello");  
    number++;
```

```
}
```

After executing the body of the loop, start over

Do...While Loop

- Repeatedly executes same set of statement while condition is true
- The statement is executed **once** initially then condition is checked at loop end
- Code in loop body will execute at least once



Syntax

```
do {  
    //Loop Body  
    Statement(s);  
}while(Boolean Epression);
```

Which Loop to Use?

- You can use a **for loop**, a **while loop** or a **do-while loop**, whichever is convenient.
- A **for-loop** maybe used if the number of repetition is known in advance
- A **while loop** may be used used if the number of repetition is not fixed
- A **do-while loop** maybe used to replace while loop if the loop body must be executed before the condition is checked.