

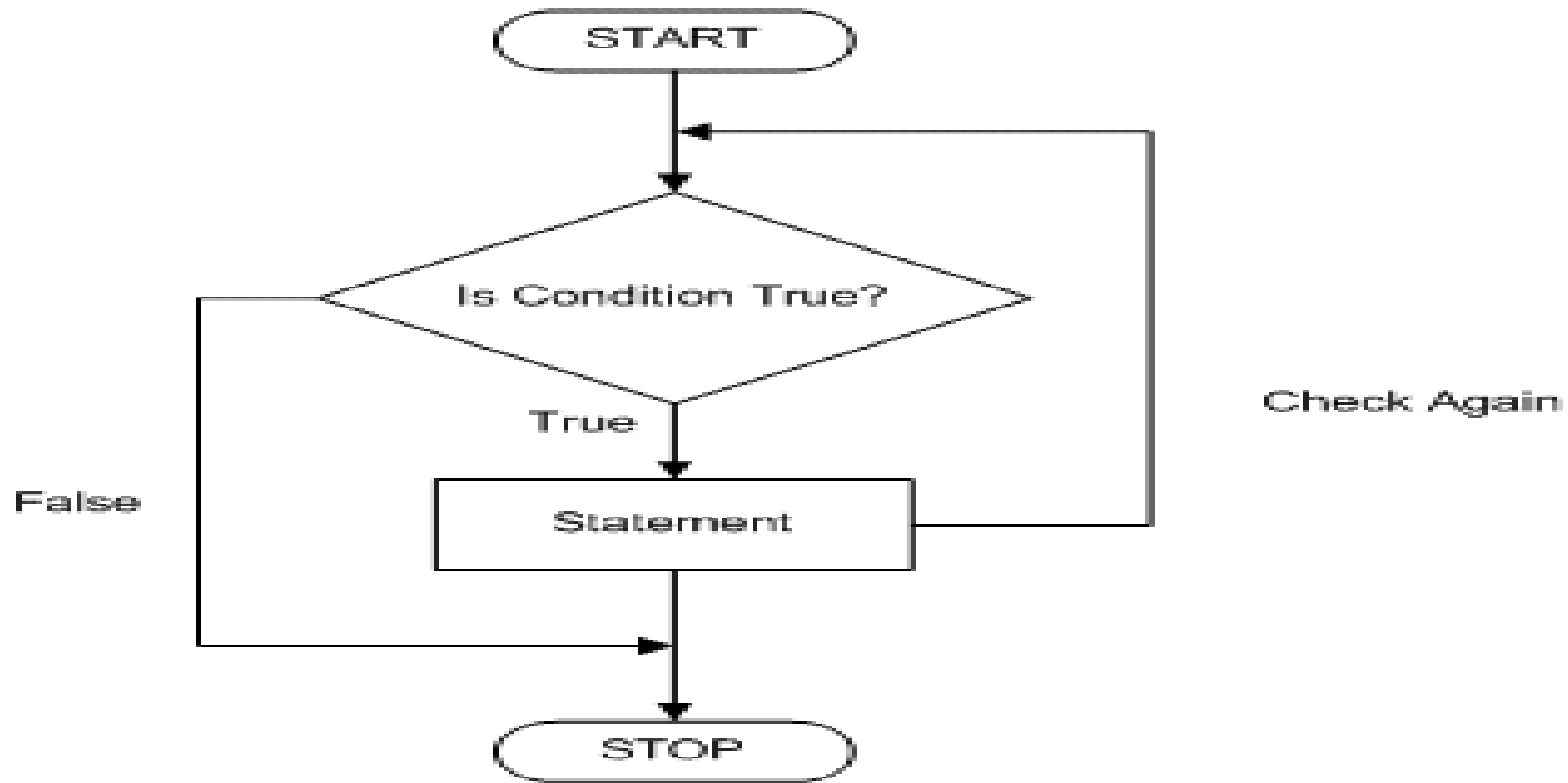
Object Oriented Methodology Lab

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Iteration Statements

- ▶ Java's iteration statements are **for**, **while**, and **do-while**. These statements create what we commonly call *loops*.
- ▶ As you probably know, a loop repeatedly executes the same set of instructions until a termination condition is met.

While Loop Flowchart

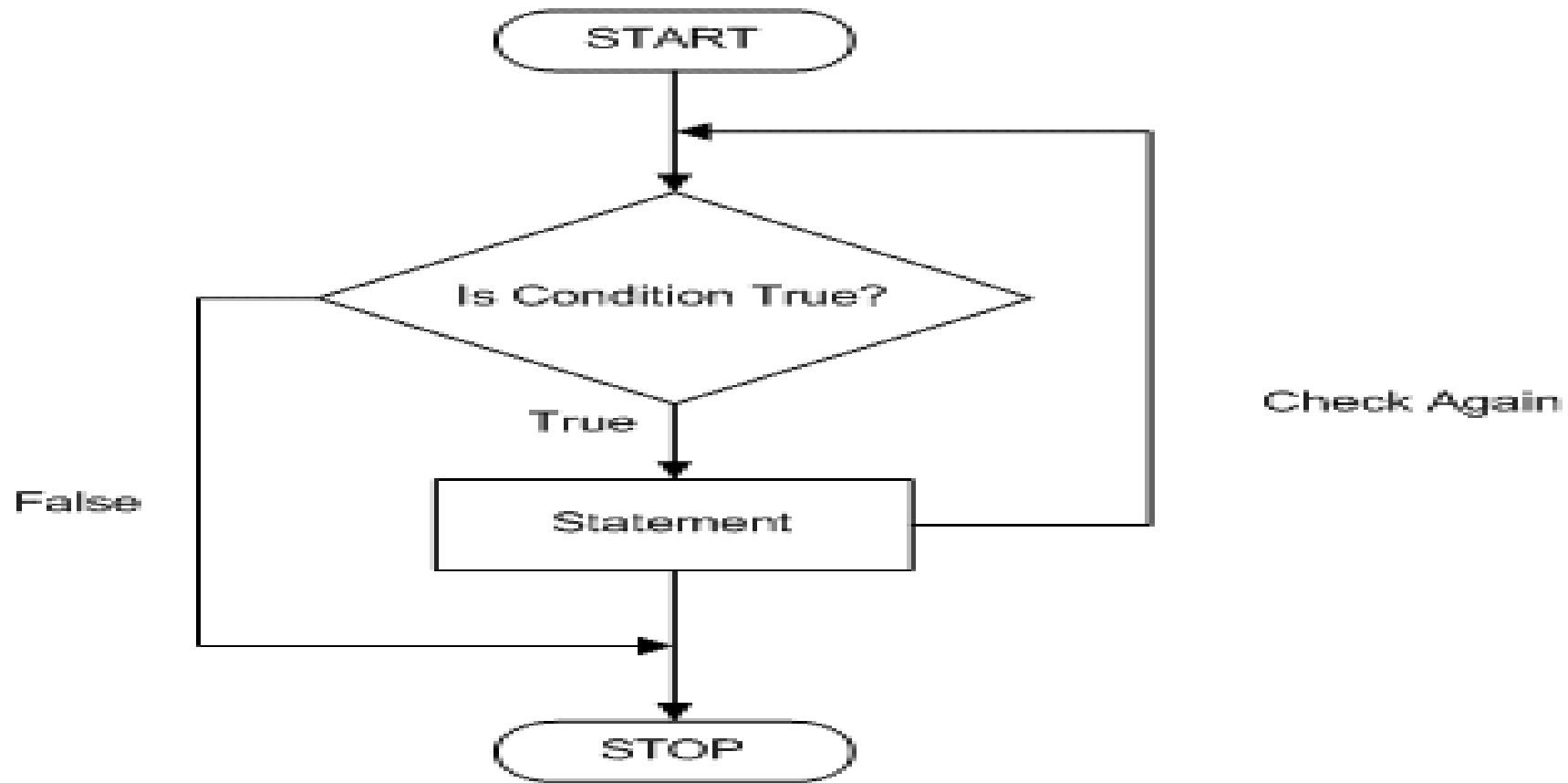


While Loop

```
int a=1;    /* the initial value of the control variable*/

while(a<=limit)
/*the loop-continuation condition that
determines if looping should continue.*/
{
    System.out.println("The number is = "+a);
    a++;/*the increment (or decrement) by which
the control variable is modified each
time through the loop*/
}
```

For Loop Flowchart

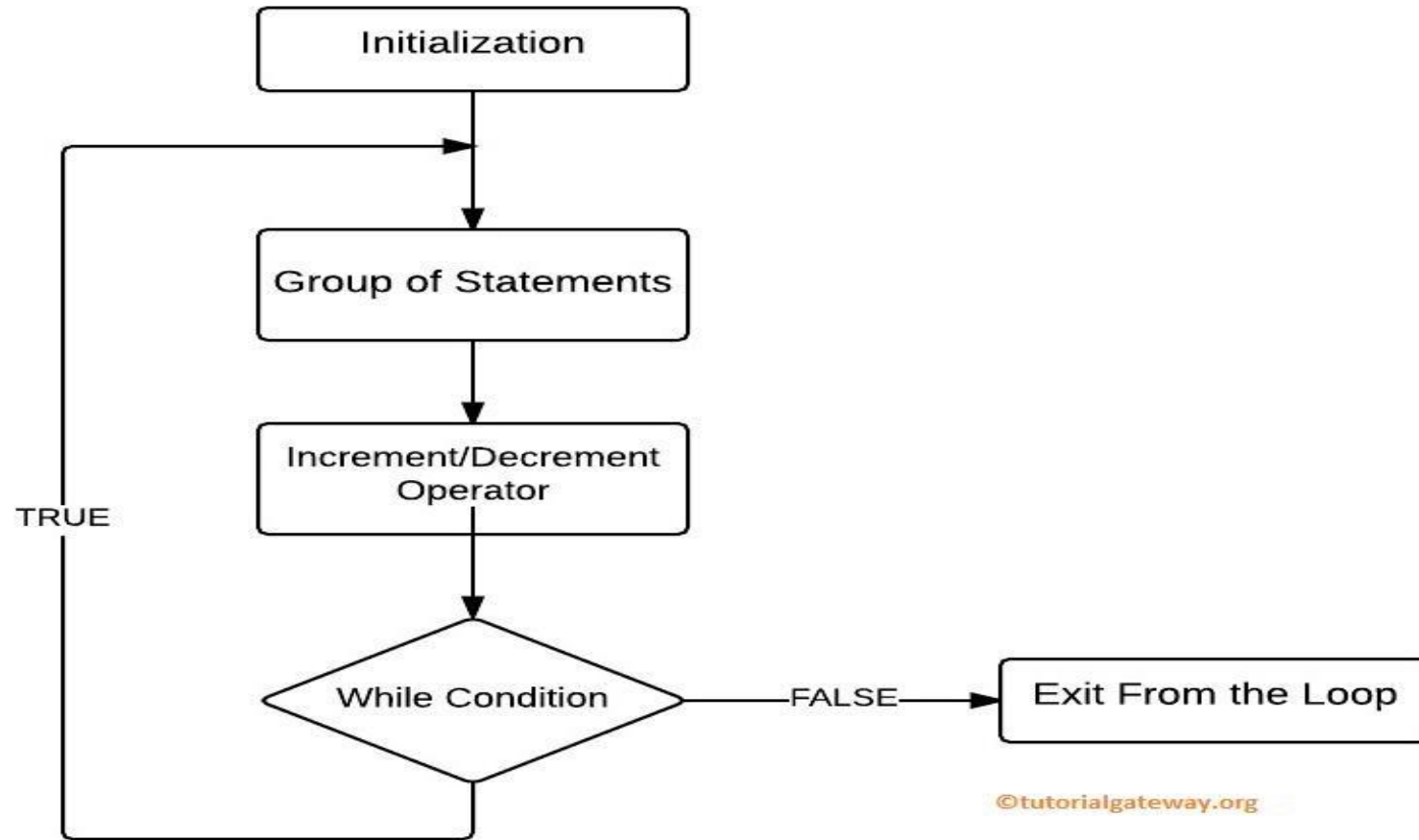


For Loop

```
private static void forLoop()
{
    System.out.print("Enter Limit would you want to print : ");
    int limit=mScanner.nextInt();

    for(int a=1/*Initialization*/;a<=limit/*Condition*/;a++ /*Increment or decre-
ment*/){
        System.out.println("The number is = "+a);
    }
}
```

Do-While loop



Do-While loop

```
System.out.print("Enter Limit would you want to print : ");  
int limit=mScanner.nextInt();  
int a=1;    /* the initial value*/  
  
do{  
    a++; /*increment*/  
  
}while(a<=limit);/* Condition */
```


Nested Loop

```
for(i=0; i<10; i++) {  
    for(j=i; j<10; j++)  
        System.out.print(".");  
    System.out.println();  
}
```

Source Code

Variable Naming convention

Questions?