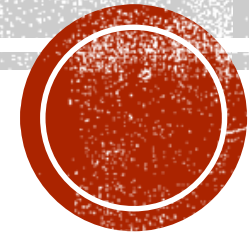




COMPUTER PROGRAMMING CONCEPTS



CS&IT 1101

Instructor: Shakar H. Salih

E-mail: shakar.salih@uhd.edu.iq



LECTURE 12: REPETITION IN JAVA

OUTLINES

- Do while loop in java

INTRODUCTION

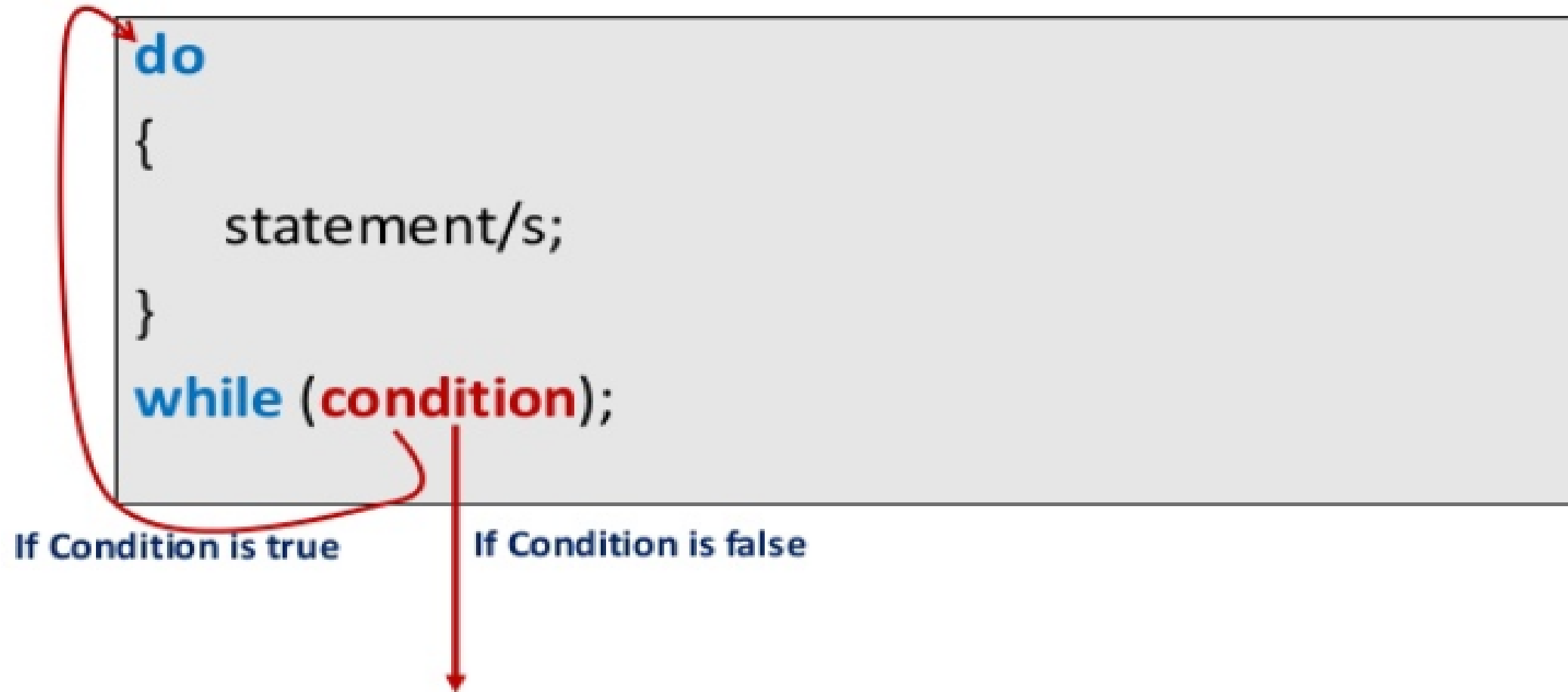
- The **do-while** loop is similar to the **while** loop, except that the **test condition** occurs at the **end** of the loop. Having the test condition at the end, guarantees that the body of the loop always executes at least one time. • The **test condition** must be enclosed in parentheses and **FOLLOWED BY A SEMI-COLON**.

DO WHILE LOOP DECLARATION

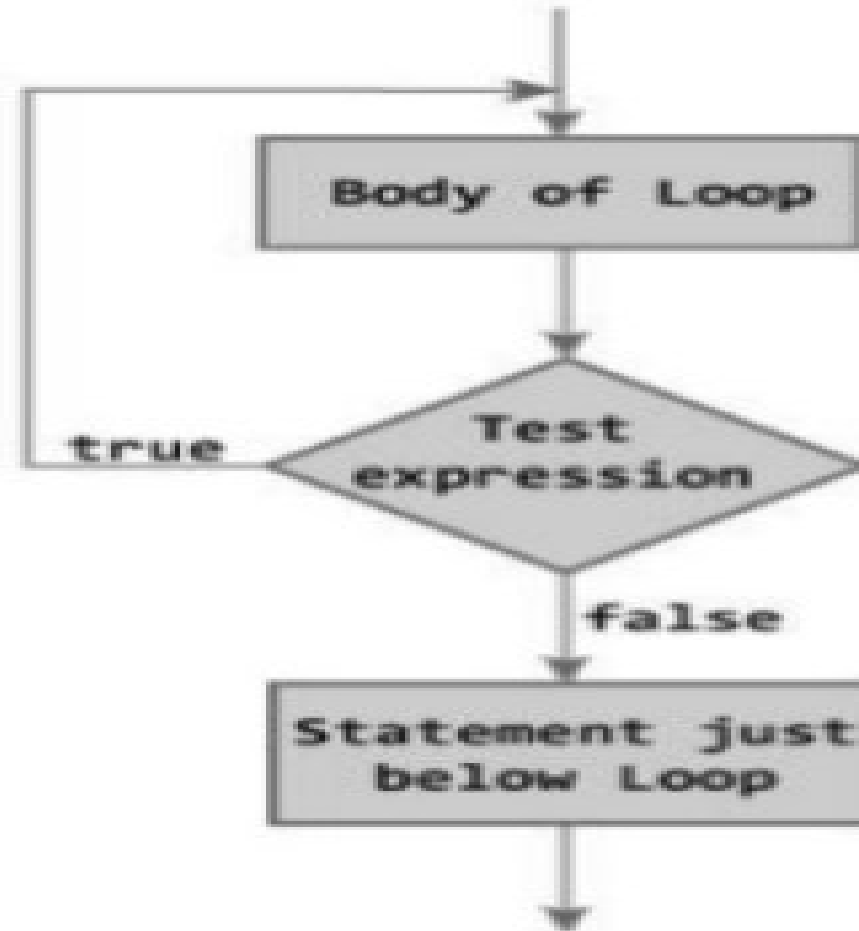
```
Do  
{  
    block of code;  
}  
while (test condition);
```

- The **test condition** must be enclosed in parentheses and **FOLLOWED BY A SEMI-COLON**. Semi-colons also follow each of the statements within the block. The body of the loop (the block of code) is enclosed in braces and indented for readability. (The braces are not required if only **ONE** statement is used in the body of the loop.)
- The **do-while** loop is an **exit-condition** loop. This means that the body of the loop is always executed first. Then, the test condition is evaluated. If the test **condition** is **TRUE**, the program executes the body of the loop again. If the test condition is **FALSE**, the loop terminates and program execution continues with the statement following the **while**.

SYNTAX OF DO WHILE LOOP



FLOWCHART OF DO WHILE LOOP



DO WHILE EXAMPLE (1/2)

```
public class Test {  
    public static void main(String[] args) {  
        int x = 10;  
        do {  
            System.out.print("value of x : " + x );  
            x++;  
            System.out.print("\n");  
        } while( x < 15 );  
    }  
}
```

Starting point of
do while loop

This statement one
time must execute
before checking
condition

Sequence of Loop/
Increment by 1

Test Condition and
ending point of do
while loop

Output is :

value of x : 10
value of x : 11
value of x : 12
value of x : 13
value of x : 14

PROBLEM STATEMENT

- Write a Java program to add numbers entered by user until user enters 0.

JAVA INFINITIVE DO-WHILE LOOP

- If you pass true in the do-while loop, it will be infinitive do-while loop.

Syntax:

Do

{

 //code to be executed

}

while(true);

THANK YOU.....

DO YOU HAVE ANY QUESTIONS ?

