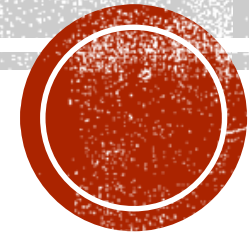




COMPUTER PROGRAMMING CONCEPTS



CS&IT 1101

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LECTURE 6: JAVA IF-ELSE STATEMENTS

OUTLINES

- Java if Statement
(Single Selection)

JAVA IF-ELSE STATEMENTS

- The Java if statement is used to test the condition. It returns true or false.
- There are various types of if statement in java:
 1. if statement
 2. if-else statement
 3. nested if statement
 4. if-else-if ladder

JAVA IF STATEMENT

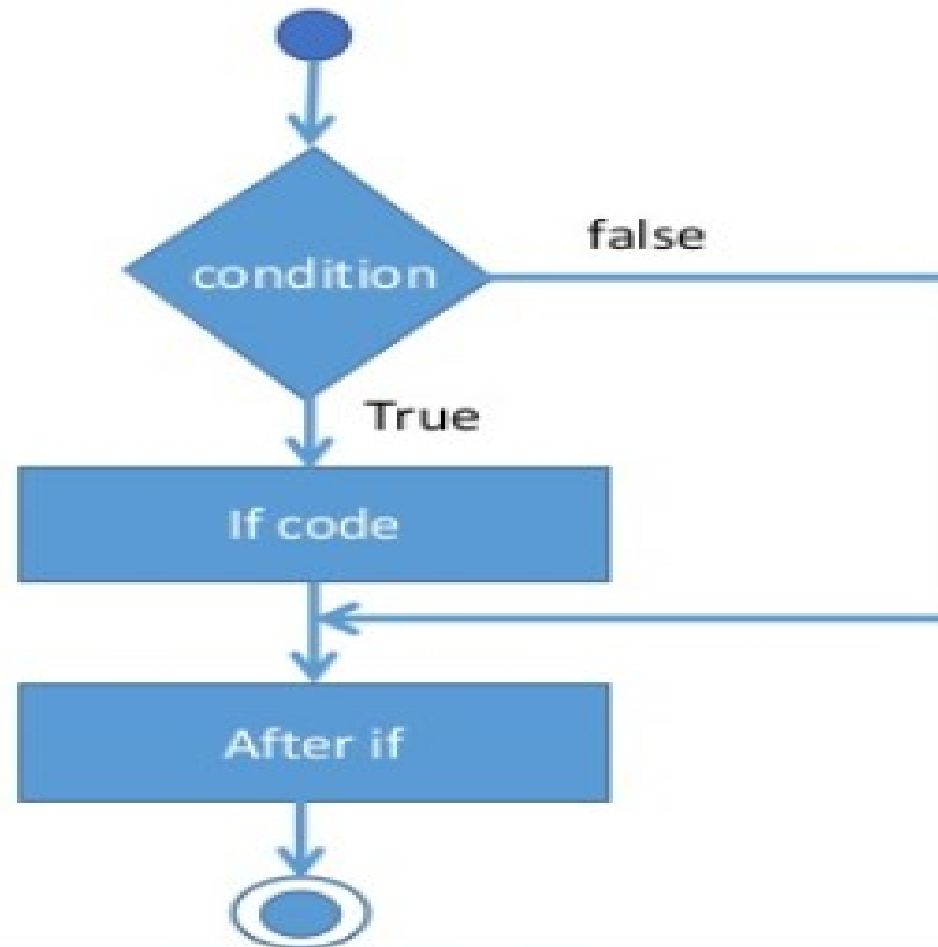
- The if statement tests the condition. It executes the if statement if condition is true.

Syntax:

```
if (condition)
{
// code to be execute
}
```

If the condition (or Boolean expression) evaluates to true then the block of code inside the if statement will be executed. If not the first set of code after the end of the if statement (after the closing curly brace) will be executed.

FLOW CHART OF IF STATEMENT



JAVA IF STATEMENT EXAMPLE

1. if (bank balance is zero)
 - Borrow money
2. if (room is dark)
 - Put on lights
3. if (today is Sunday)
 - Lets play football
4. if (student marks is 60)
 - You are pass
5. if (code is 0)
 - Person is male
6. if (age is more than 55)
 - Person is retired

EXAMPLE (1/5)

- suppose the passing grade on an exam is 60.

The pseudo code statement :

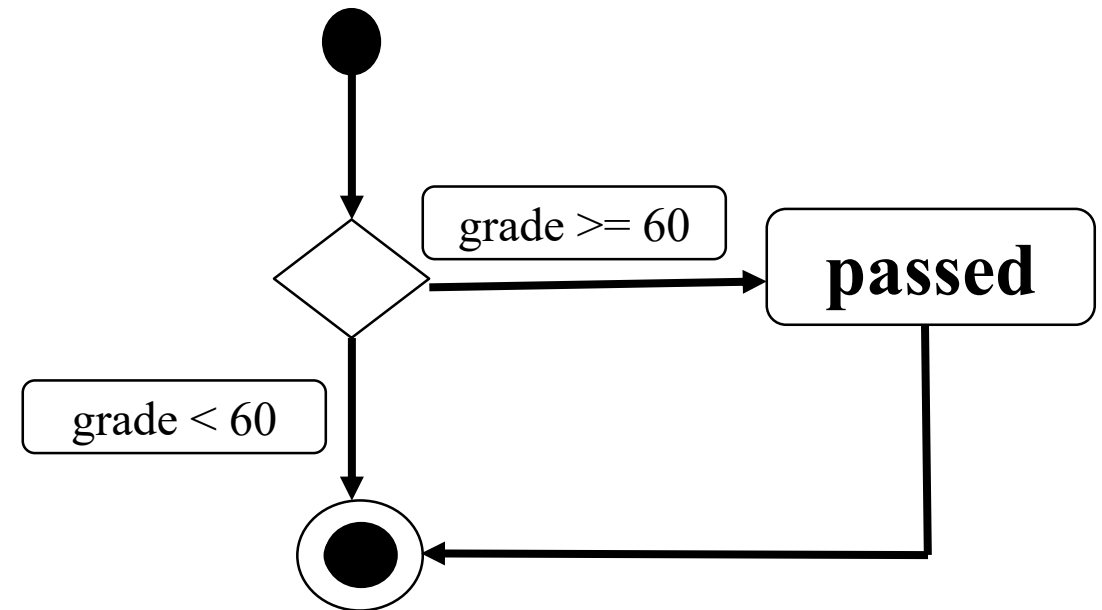
If student 's grade is greater than or equal to 60 Print
“Passed”

- Determines whether the condition “student’s grade is greater than or equal to 60” is true or false. If the condition is true, “Passed” is printed and the next pseudo code statement in order is performed. If the condition is false, the print statement is ignored and the next pseudo code statement in order is performed.

EXAMPLE(2/5)

- The preceding pseudo code If statement can be written in java as :

```
if (grade >= 60 )  
    System.out.println ("Passed");
```



EXAMPLE(3/5)

```
public class MyFirstProgram {  
  
    public static void main(String[] args) {  
        int number=20;  
        if(number>10)  
            System.out.println("i am in if Statement");  
    }  
}
```

Declare and
initialized variable
with value of 20

Checking condition
if number greater
than 10 then
condition is true

EXAMPLE(4/5)

```
public class MyFirstProgram {  
  
    public static void main(String[] args) {  
        int a=10,b=20;  
        if (a<b) {  
  
            System.out.println("This is if statement example");  
  
        }  
  
    }  
}
```

EXAMPLE(5/5)

```
public class MyFirstProgram {  
  
    public static void main(String[] args) {  
        int a=20,b=10;  
        if (a<b) {  
  
            System.out.println("a is less than b");  
        }  
        if(a>b){  
  
            System.out.println("a is greater than b ");  
        }  
    }  
}
```

YOUR TASK

- Write a java program which gets the value of two integers from user and display whether first number is lower than, equal to or greater than the second number.

THANK YOU.....

DO YOU HAVE ANY QUESTIONS ?

