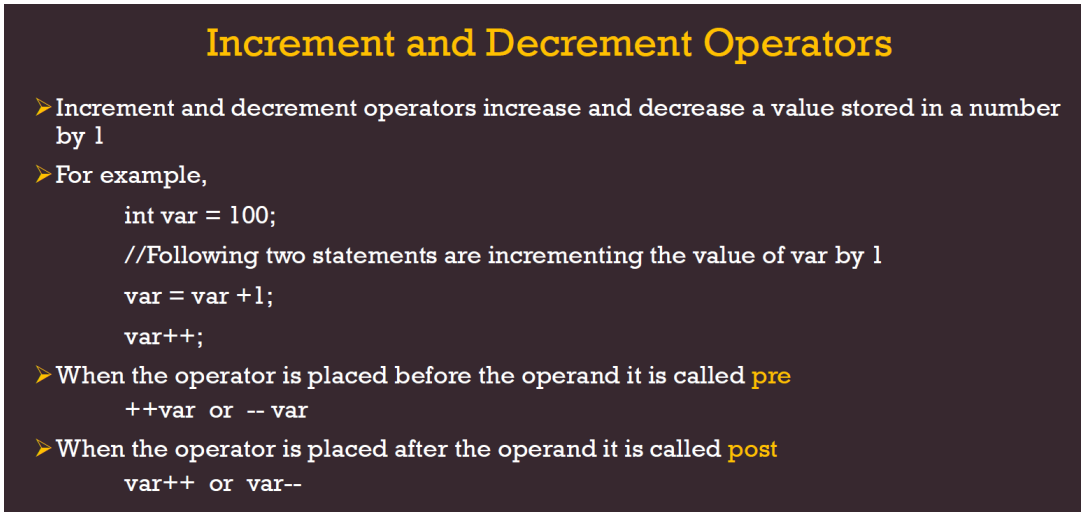
B28 Java Office Hours Week04

- Class Notes
  - Review Questions
    - What do you know about pre and post increment/decrement?



    - The difference between Pre and Post

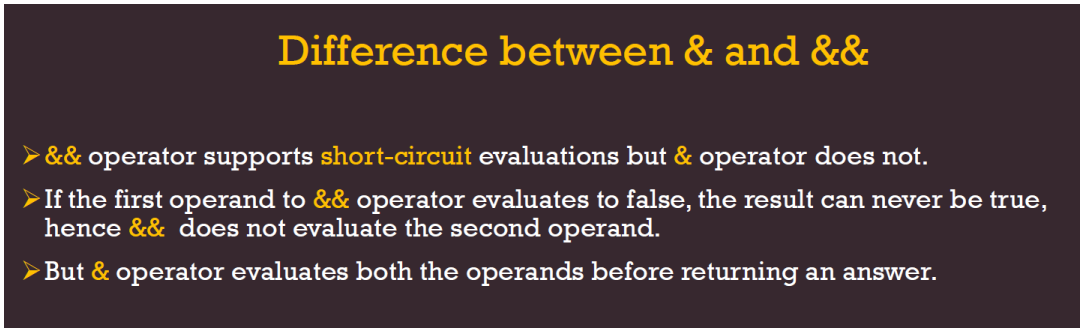
      Pre-Increment/Pre-Decrement: When the operator is placed before an operand
      (++expr, --expr), the variable will be incremented or decremented by 1 in the
      memory, and the new value is used in the expression in which it appears.

```java
int a = 25;
System.out.println(++a);    //26
System.out.println(--a);    //25
```

Post-Increment/Post-Decrement: When the operator is placed after an operand(expr++,expr--), the old value of the variable will be used in the expression
where it appears and then the variable will be incremented or decremented by 1 in
the memory.

```java
int b = 25;
System.out.println(b++);    //25
System.out.println(b--);    //26
```

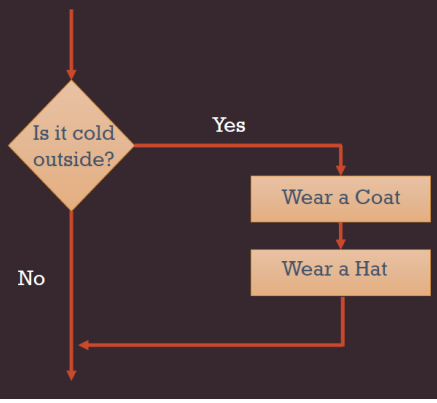
▼ What is the difference between & (Logical And) and && (Bitwise Logical And)?



▼ IF Statements

IF Statements

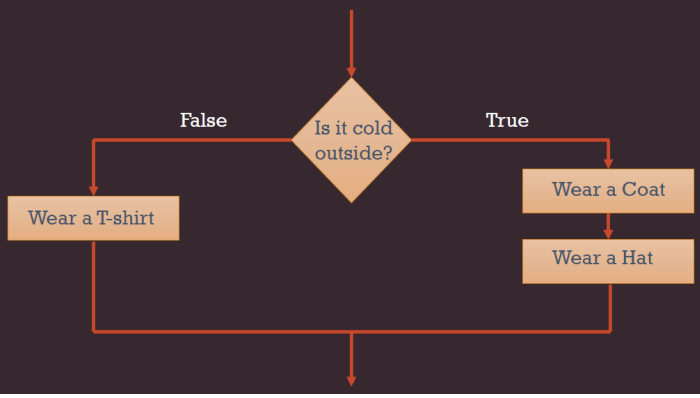
The if statement evaluates a condition. If the condition evaluates to true, any statements in the subsequent code block are executed.



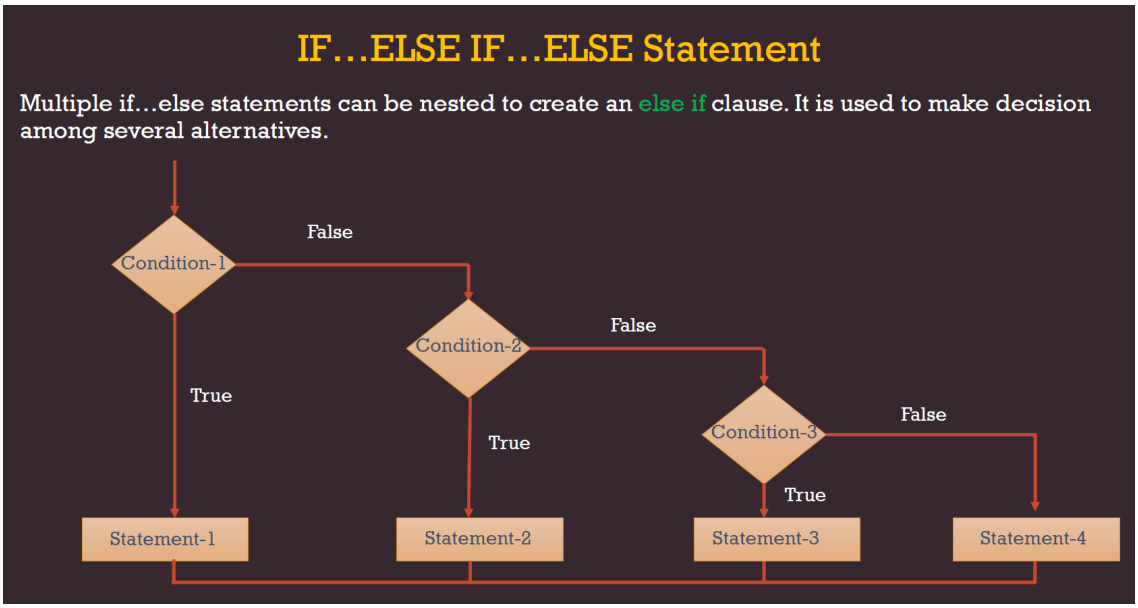
▼ IF…ELSE Statements

IF…ELSE Statements

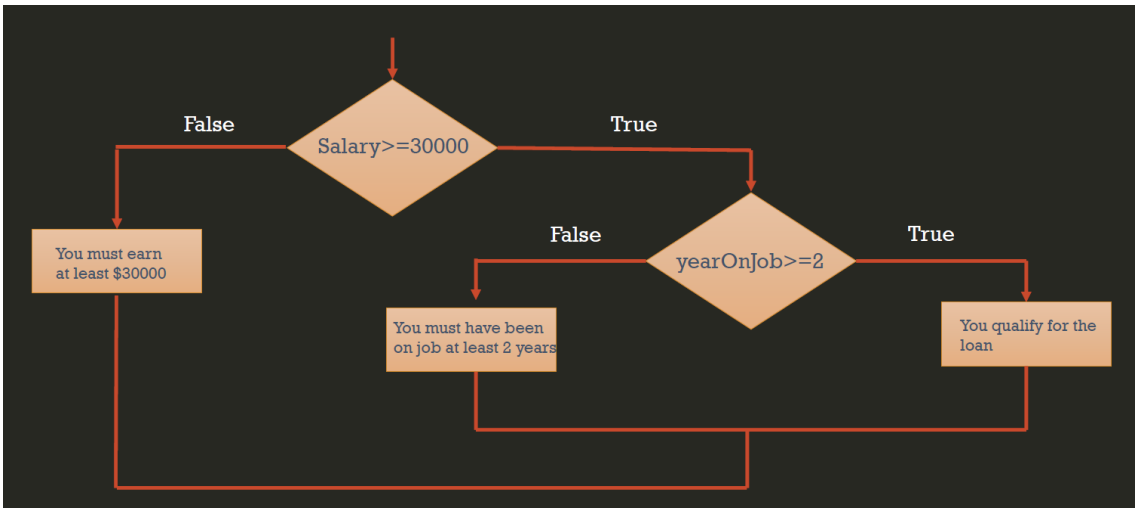
The if…else statement checks a condition. If it resolves to true the first code block is executed. If the condition resolves to false, the second code block is run instead.



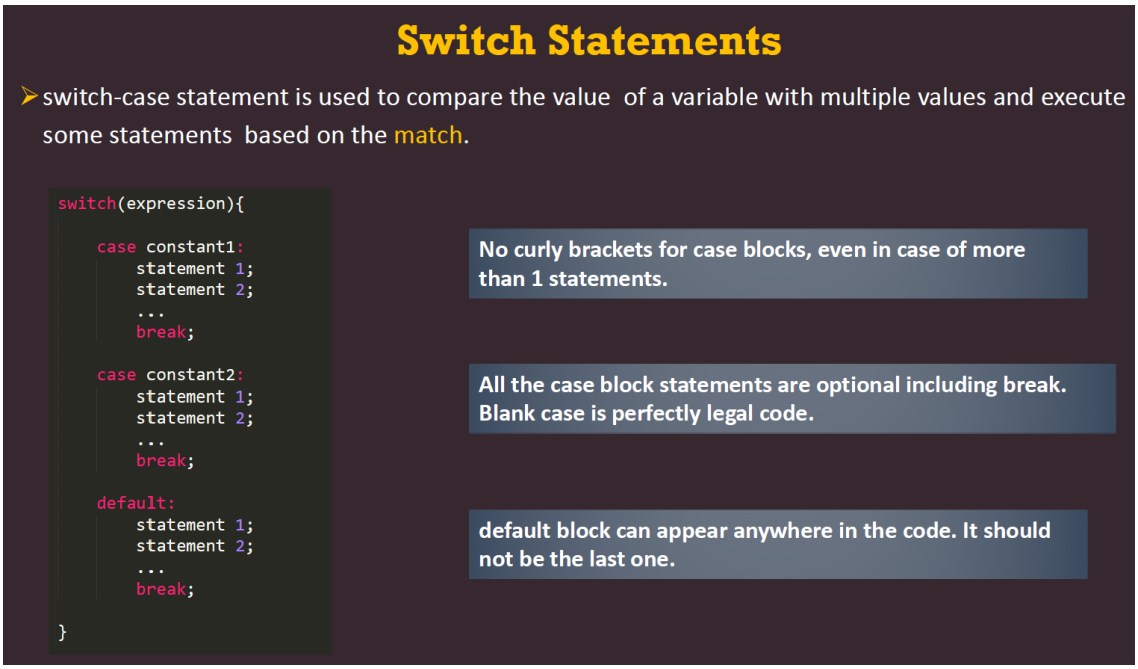
▼ IF…ELSE IF…ELSE Statement



▼ Nested IF Statements



▼ Switch Statements



▼ Scanner

To get user input from Console or some text file:

Scanner class is a utility defined in Java

First step : Create “scanner object” —— Object Oriented Programming Language

created object so we can reach scanner class METHODS

Syntax: Scanner objectName = new Scanner(System.in)

objectName.next() ——To get String inputs

objectName.nextInt()—- to get integer inputs