WEEK3: OPERATORS, STATEMENTS

1. JAVA OPERATORS

Operators are special symbols (characters) that carry out operations on operands (variables and values). In java we have 7types of operators:

1) Basic Arithmetic Operators: There are use to perform mathematical operations like addition, subtraction, multiplication, etc. It exists 5 types of Arithmetic Operators: +, -, \*, /, %.

2) Assignment Operators: there are use to assign values to variables. We have 6 types of Assignment Operators: =, +=, -=, \*=, /=, %=.

3) Auto-increment and Auto-decrement Operators: there are 2: ++ to increase the number by 1, and – to decrease the number by 1.

4) Logical Operators: They are used in conditional statements and loops for evaluating a condition. In java Logical operators are: &&, ||, ! .

5) Comparison (relational) operators: there are in number of 6: ==, !=, >, <, >=, <= they are used to make comparison between numbers.

6) Bitwise Operators: There are six bitwise Operators: &, |, ^, ~, <<, >>. They are used to perform bit by bit processing

7) Ternary Operators: don’t really understand this one.!

1. STATEMENTS

We learned 4 types of statements

1) if statement: The statements gets executed only when the given condition is true. If the condition is false then the statements inside if statement body are completely ignored.

2) nested if statement: it's When there an if statement is inside another if statement.

3) if-else statement: in that type of statement, the statements inside “if” would execute if the condition is true, and the statements inside “else” would execute if the condition is false.

4) if-else-if statement: if-else-if statement is used when we need to check multiple conditions. In this statement we have only one “if” and one “else”, however we can have multiple “else if”.