Java 9 & 10

Assignment: Operators-2

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Instructions:

- **Complete this assignment in next 24 hours.**
- **Submit the solution to your leaders.**
- **Ask for help to your leaders if it is really a need.**

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Program 1: Write a Java Program, which will contain 2 numbers. Use the following operators on it.

1. less than (<)
2. Greater than (>)
3. Less than or equal to (<=)
4. Greater than or equal to (>=)
5. Equivalent (==)
6. Not equivalent (!=)

Program 2: Write a Java Program, which will contain one number 'num'. Use the following operators on it and print the output.

1. num >>>= 2
2. num <<= 3
3. num ^= 2
4. num = ++num
5. num = ~num

Program 3: What will be the output of the statement if i=5, j=4

1. (i++ >= j++) && (--j < i++)
2. (--i < j--) || (j++ >= ++i)

Program 4: Write the binary number of the following decimal numbers (Do it on paper/notebook with proper explanation)

1.56, 2.34, 3.65, 4.103, 5.97

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Program 5: Write 2 classes as Pune, Mumbai. Add the following things:

class Pune :

        static variable : int covidActiveCases

        instance variable : int totalCases

        static method : noCorona

        instance method : lockdown

                noLockdown

class Mumbai :

        static variable : int covidActiveCases

        instance variable : int totalCases

        static method : noCorona

        instance method : lockdown

                noLockdown

Increment both the variables in non-static method. Call non-static methods twice, display the output and observe the changes. Draw JVM architecture for the same.