Java 9 & 10

Assignment: Operators-3

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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 to check if the Bitwise operators given below works on int, long, char, float, and double data types
1. Bitwise AND (&)
2. Bitwise OR (|)
3. Bitwise XOR (^)
And also write down your conclusion in the comments.

Program 2: Write the binary numbers for the following integers(on paper or .txt)
123, 74, -60, ~11

Program 3: What will be the output of the following statement if num1=10, num2= 5:
(num1++ | num2)&((++num2)^num1)
and also write the precedence of the operators you came across till now(on paper or notebook or text file).

Program 4: Write a java Program to check if the Bitwise operator ~(compliment) works with operands with data type int, long, float, double and char.

Program 5: Write a Java code considering your favorite sports/games i.e. either indoor or outdoor (if more than one game, make one class for each game) which must have at least one static variable, instance variable, static method and one instance method.