CSN-103: Fundamentals of Object Oriented Programming
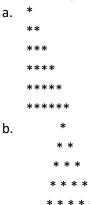
Assignment 02

General Instructions:

Programming Problems

1) Write a Java program to add an int and a double variable having values 55 and 7.896, respectively. Use a third variable of the correct type to store the sum and display it on the screen.
2) Write a Java program to print the area of a rectangle of size 34567 cm X 76543 cm.
3) Write a Java program to print the ASCII value of all the characters from 'A' to 'Z' and 'a' to 'z'.
4) Write a Java program that assigns a value 3.5678 to a double variable. By explicit typecasting, store this double value to an int variable and display it on the screen.
5) Write a Java program to calculate the number of characters lies between 'F' and 'Q' in the English alphabet.
6) Write a Java program that prints the table of 7 using += operator.
7) Write a Java program that prints the value of 7^5 using *= operator.
8) Write a Java to print the following patterns on the screen (using a loop statement)

   a.
   ```
   *
   **
   ***
   ****
   *****
   ******
   ```

   b.
   ```
        *
       * *
      * * *
     * * * *
    * * * * *
   ```

9) Write a Java program to declare and initialize a one-dimensional array of size 5 with random numbers. Calculate the sum of array elements and display it on the screen.
10) Write a Java program to declare and initialize two 2-D arrays A and B of size 3X4 and 4X3 with random numbers. Calculate AXB (matrix product) and display the resultant matrix on the screen.