Dept. of CSE, Bennett University
ECSE379L – Programming Using C++

Lab Assignment – 2

In this lab, you will write a C++ program to solve the following problems.

1. An integer N is given. Write a program to find the square and cube of the integer N. (Range of N lies between -100 and +100, both the numbers are included)

   Example: Input (1): 5, Output (1): 25, 125
   Input (2): -5, Output (2): 25, -125
   Input (3): 1, Output (3): 1, 1

2. The BASIC Salary of an employee is provided. Write a program to find the Gross Salary (BASIC + DA% of BASIC + HRA% of BASIC) of the employee.

   Example: Input (1): BASIC = 20000, DA = 17%, HRA = 20%
   Output (1): Gross Salary = 27400

3. Write a program to find the factorial of a number. It should display an error message if the number is negative.

   Example: Input (1): 6, Output (1): 720
   Input (2): - 3, Output (2): Error
   Input (3): 1, Output (3): 1

4. Write a program to display the count of prime numbers upto a particular number (N). Here N is included.

   Example: Input (1): 100, Output: 25
   Input (2): 23, Output: 9

Submission Instructions:

- Submit your assignment files from LMS within 4 days from the day of your lab slot. Save all the files as per the format RollNo_Lab#_QuestionNo.cpp (Example: E18CSE362_Lab2_Q2.cpp). Make a single .zip file and upload at a time.

- Write your Name and Roll No as comment line in the program. Without this you will score zero for that particular question.

- Provide label/comments in the appropriate place.

- Late submission will lead to penalty.

- Any form of plagiarism/copying from peer or internet sources will lead penalty.