**East West University**

**Department of Computer Science and Engineering**

**CSE103: LAB 01**

**Course Instructor: Dr. Ahmed Wasif Reza**

**1.** **Write a C program which takes two integer values X and Y as inputs and determines which quadrant the point lies. [Hints: if-else].**

Sample Input/Output:

**Input** **Output**

5 7 First Quadrant

-1 3 Second Quadrant

0 0 Origin

**2.** **User will input a number and you have to generate the multiplication table of that number. [Hints: for loop].**

Input Output

3 3 x 0 = 0  
 3 x 1 = 3  
 3 x 2 = 6  
 3 x 3 = 9  
 3 x 4 = 12  
 3 x 5 = 15  
 3 x 6 = 18  
 3 x 7 = 21  
 3 x 8 = 24  
 3 x 9 = 27  
 3 x 10 = 30

**3**. **Generate a grade report based on the number given by the user. [Hints: if-else].**

**0-60 = Fail, 61-70 = C, 71-80 = B, 81-90 = A, 91-100 = A+**

Input Output

75 B

33 Fail

**4.** **Write a program to print odd numbers between 1 and 50 in reverse order. [Hints: for loop].**

**5.** **Generate the following pattern using nested while loops. [Hints: nested while loops].**

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

**6. Find out the average of the given numbers from the user. Assume that user will input -1 to terminate the number series. [Hints: while loop].**

**Input Output**

5 8 7 -1 6.67

1 9 10 20 -1 10

**7. Print Hello World 10 times along with the serial number and skip the 7th Hello World. Your program would only print a total of 9 ‘Hello world’s along with the serial number. [Hints: for loop].**

Output

1 Hello World

2 Hello World

3 Hello World

4 Hello World

5 Hello World

6 Hello World

8 Hello World

9 Hello World

10 Hello World

**8. You will take an integer number from the user. You have to find the summation of all the digits. [Hints: for loop].**

**Input Output**

1234 10

678 21

**9. In this problem, you will develop a program that can find how many times an integer number can be divided by Two (2).**

**Input Output**

32 5

61 0

**10. You will take several integer numbers as inputs until the user enters -1. Then calculate the difference between the Highest and Lowest number.**

**Input Output**

7 5 1 9 5 -1 8

0 7 8 4 9 -1 9