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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Introduction to computing Lab** | **Course Code:** | **CS 101** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Fall 2017** |
| **Duration:** | **120mins** | **Total Marks:** | **50** |
| **Date** | **18-10-17** | **Weight** | **25%** |
| **Section:** | **All** | **Pages:** | **1** |
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**Instructions:**

* Submit **ONLY .CCP Files** in this format (Your Roll no. and problem number):

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**Exercise 1:** Write a C++ program that asks the user to repeatedly input positive numbers until -1 is pressed. Your program should print the **second largest** number and the count of **even** and **odd** numbers.

**Sample input:**

4 12 33 1 23 6 300 4 2 -1

**Output**:

Second Largest: 33

Even Count: 6

Odd Count: 3

**Note**: Since the program must print the second largest number, so the minimum inputs should be two.

**Exercise 2:** Write a C++ program that asks the user to enter a positive number **N**, and print the following pattern. The pattern is shown for **N = 5**.

12345

23451

34521

45321

54321

**Exercise 3:** Write a program that takes a set of **N** integers and count the frequency of ODD digits appeared in these N integers.

**Sample Input:**

How Many Numbers you want to input: 3

Number 0: 7809

Number 1: 1127

Number 2: 8381

**Output:**

Frequency of appeared ODD digits: **7**

The digits **7**80**9. 51**2**7.** 8**3**8**1.** So the count of these ODD digits is **7.**