Daffodil International University

Department of Computer Science and

Engineering Faculty of Science & Information

**Technology Midterm Examination, FALL 2021 @ DIU Blended
Learning Center Course Code: CSE334 (Day), Course Title: Wireless
Programming
Level: 3 Term: 3 Section: PC-1 OLD
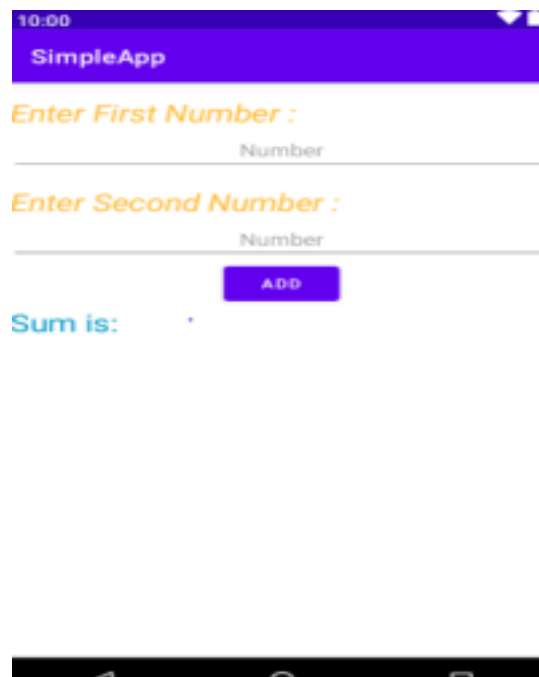Instructor: AK   Modality: Open Book Exam
Date: 17 November 2021   Time: 09:00 AM - 11:30 PM
Four hours (2:30) to support online open/case study-based assessment Marks: 25**

1. **Suppose,** you have the following user interface of android apps which contains 3 Text View, 2
Edit Text and 1 Button. This application will take input from the user and performs addition of 2
numbers. If you give 5 in first Edit Text, and 6 in the second Edit Text, then press ADD button it,
will show 11 as output in Text View

Now answer the following questions:

a) Write the XML code for the given User Interface. [2]

b) What would be happen if user click ADD button without giving input? Mention the possible reason. As a developer, how could you solve this problem? [3]

c) Write the JAVA code for the given User Interface and solve the problem (b) as well. [4]

d) Did you use any OOP concept in your JAVA code? Which concept and mention the line along with description [3]

d) Suggest an alternative way that can show output without Text View? Write down the code. [2]

2. Suppose, you have been asked to design an android application which will contain two activities named **First Activity** and **Second Activity**. In the **First Activity**, it has two **Edit Text** components and two button. In the first Edit Text, you will give your name as input, and in the second Edit Text, give your student id (String) as input. Out of the two buttons, one will be named the "Count" button, and the other one will be the "Go To" button. If you press the Count button, a counter will increase for once. If you press the "**Go To**" button, you will switch from **First Activity** to the Second **Activity**. Before going to the **Second Activity,** it will pass your **name, student id** from the Edit Text components and a value equal to the last count from the Count Button. Then show the all information in the **Second Activity** along with a welcome message.

   a) Write down the XML code for the two activities. [3]
   b) Write down the JAVA code for the above scenario. [8]