

**INDIVIDUAL PROJECT  
SEPTEMBER/OCTOBER SEMESTER 2021**

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**BACHELOR OF COMPUTER SCIENCE (HONS.)  
(IN COLLABORATION WITH IUKL)**

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**MOBILE PROGRAMMING  
(CSC 3563)**

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**LECTURER'S NAME : NITESH REGMI**

**GENERAL INSTRUCTIONS**

1. This question booklet consists of 3 pages including this page.
2. There is one **SECTION** in this question booklet.
3. Please submit assignment solution in **SOFT COPY FORMAT**.
4. **The Deadline for Submission is on 12<sup>th</sup> January 2022.**



(20 MARKS)

There are TWO (2) questions in this section. Answer ALL Questions

1. Create a **Phone Call App** to demonstrate the use of both explicit and implicit intents and provide the code of Activities and XML layouts. The application has following requirements.
  - A. The first page should show a Form to the users to provide their Full Name, Username and Password details. It should also contain a Submit button.

(1 mark)

    - a. When submit button is clicked, check for full name, username and password fields. If the value is empty or not given, raise a toast to inform users that the value in the fields cannot be empty.

(1 mark)
    - b. When submit button is clicked, check for username and password. If the username is "nitesh123" and password is "SUNway123" then take to the second page. Otherwise raise a Toast to show login error message. Remember: username is not case sensitive but password is.

(2 marks)
  - B. The second page should open when Submit Button on first page is clicked. In second page, greet user with "Hello + full name". Suppose if full name is given "Nitesh Regmi" then you should greet like "Hello Nitesh Regmi".

(1 mark)

    - a. Below that provide an edit text UI component to ask for mobile number of the user and a Call button.

(1 mark)
    - b. When Call button is clicked, the activity should show the dialer app with the number entered by user in the edit text.

(2 marks)



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2. Create an **Airlines Advisor App** and provide the code of Activities, XML layouts and strings.xml. The application has following requirements:
- The first page should show a Form to the users to provide following information's.  
Airlines: Users should be provided with the list of airlines to select from. For example: Yeti Airline, Buddha Airline, Saurya Airlines and Shree Airlines.
  - From: Users should be provided with the list of destination from where they can fly. For Example: Kathmandu, Pokhara, Biratnagar and Chitwan.
  - To: Users should be provided with the list of destination to where they can fly. For Example: Kathmandu, Pokhara, Biratnagar and Chitwan.
  - Date: Users should be able to select the date of flying.
  - No of Passenger: User should be able to select number of passengers.
  - Submit Button: The button can be clicked to go to second activity/page.
- (3 marks)
- a. The second page should open when Submit Button on first page is clicked. In second page, show the available flight details. Use ListView to show the list of available flight user can select. More marks will be awarded if different flight timings are managed for different airlines and destination.
- (6 marks)
- b. The third page is opened when the flight is clicked on second page. The flight details selected on second page should be carried to third page and should be shown to the users for confirmation.
- (3 marks)
- c. More marks will be awarded if form validation is used.