

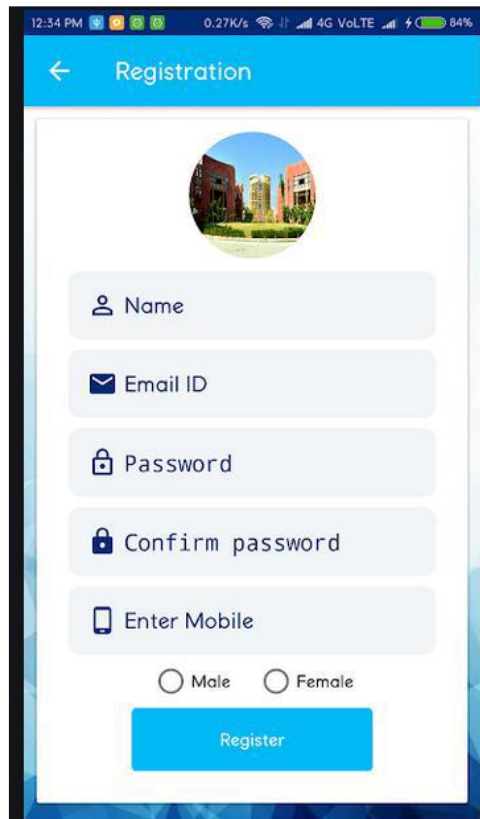
Mobile Application Programming - Sheet 1

Review question

- 1) List features of Android Operating System.
- 2) Define:
 - a. Android Virtual Devices (AVD).
 - b. Services in Android operating system.
- 3) Write the directory path where images are stored while developing Android application.
- 4) Write out code you use to add Fragment called *Student_Fragment* dynamically into your activity when value of $x > 100$.
- 5) Write the syntax for Intent-Filter tag.
- 6) Enlist the steps to publish the Android application.
- 7) Describe the Android architecture in detail.
- 8) Explain the difference between
 - a. Absolute and Relative Layouts
 - b. Activity vs. fragment life cycle.
- 9) Discuss the need of permissions in Android. Describe the permissions to set system functionalities like Bluetooth, camera.
- 10) Write out code snippet to detect screen orientation.
- 11) List Eight alignment attributes of relative layout.
- 12) Observe the following GUI and write an XML file using relative layout to create the same.



- 13) a) Develop the registration form using the following GUI.

A screenshot of an Android application's registration screen. The status bar at the top shows the time as 12:34 PM, signal strength, 4G VoLTE, and 84% battery. The app's header is blue with a back arrow and the title "Registration". Below the header is a circular profile picture placeholder showing a building. The form contains five input fields: "Name" (with a person icon), "Email ID" (with an envelope icon), "Password" (with a lock icon), "Confirm password" (with a lock icon), and "Enter Mobile" (with a mobile phone icon). Below these fields are two radio buttons for "Male" and "Female". At the bottom is a blue "Register" button.

14) Develop an android application to calculate age (Use Date Picker) using following GUI.

A screenshot of a desktop-style GUI for an age calculator. It has a light blue background. There are two date pickers: "Date of Birth" with the value "11-Jun-2016" and "Current Date" with the value "11-Jun-2016". Below these is a "Calculate" button. At the bottom, it says "Your Age : 0".

Best Wishes
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