Subject: - Software Lab in Mobile Computing (2650017)

Practical Assignment: - 1

1) Create an application that designs a layout having **a text view**. The text view should display the message "Hello World" in the middle of the screen and the background color of the layout should be Green.

2) Create an application that designs a layout with **a text box and button** named Submit. The user should enter the text in the text box. When the submit button is clicked then the text in the text box should be displayed in the toast.

3) Create an application to designs a layout having a **Text view** with text "Mobile Computing" and background with Red Color.

4) Create an application that designs a layout having two **text boxes** user name and password. The user and password will be taken from the user. The username and password will be verified from the username and password stored in the resources folder. If the verification is successful then a new layout will appear which will open any URL in browser.

5) Create an application that designs a layout having a **rating bar**. Whenever user gives the rating then a dialog box should appear with a message and button OK. The message in the rating bar should be displayed (e.g.: 1.5 rating selected) 'You have given 1.5 Rating'. When button OK is pressed than the dialog box should disappear.

6) Create an application that designs a layout having a **toggle button**. The toggle button should be set OFF as default. When the toggle button is set ON than a toast should be displayed with a message 'Toggle button is set ON' and when the toggle button is set OFF than a toast should be displayed with a message 'Toggle button is set OFF'.

7) Create a login application that designs a layout **with two text boxes** username and password and a button login. The values of user name and password will be entered by the user. The username and password will be validated from the username and password stored in the resources folder. If username and password is not validated and incorrect, login button should remain disabled. If username and password is validated and correct, login button should be enabled and pass username to next layout using intent.

8) Create an application that designs a layout with **three check boxes** named with the hobbies (e.g.: cricket, tennis, badminton etc). When the cricket check box is checked than a toast should be displayed with the message 'Your hobby is Cricket'. When the tennis check box is checked than a toast should be displayed with the message 'Your hobby is tennis'. When the badminton check box is checked than a toast should be displayed with the message 'Your hobby is badminton'. When the cricket and badminton check boxes both are checked than a toast should be displayed with the message 'Your hobby is cricket and badminton'. When the cricket and tennis check boxes both are checked than a toast should be displayed with the message 'Your hobby is cricket and tennis'. When the badminton and tennis check boxes both are checked than a toast should be displayed with the message 'Your hobby is badminton and tennis'. When all the tree check boxes are checked than the toast should be displayed with the message "your hobbies are tennis, cricket and badminton"

9) Create an application that designs a layout having **three check boxes** named Bold, Italic, Bold Italic and one **text view**. The text view must contain a static text. When the Bold check box is checked than the text in the text view must convert to Bold. When the Italic check box is checked than the text in the text view must convert to Italic. When the Bold Italic check box is checked than the text in the text view must convert to bold and italic both. When the Bold checkbox and Italic check box both are checked than the text in the text view must convert to bold and italic both.

10) Create an application that designs a layout having a **toggle button**. The toggle button should be set OFF as default. When the toggle button is set ON than the background color of the layout should be changed to blue color and when the toggle button is set OFF than the background color of the layout should be changed to red color.

11) Create an application that designs a layout with **three radio buttons** named with the hobbies (e.g.: cricket, tennis, badminton etc). When the cricket radio button is clicked than a toast should be displayed with the message 'Your hobby is Cricket'. When the tennis radio button is clicked than a toast should be displayed with the message 'Your hobby is tennis'. When the badminton radio button is clicked than a toast should be displayed with the message 'Your hobby is badminton'.

12) Create an application that designs a layout with **text boxes and a button** to store employee's information such as emp_id, emp_nm, department, designation, and basic salary. The layout should be designed such that the user should be able to enter the entire employee's information. On clicking the button Submit all the details should be saved in to the database. Design another layout to ask user to delete any employee's information and perform delete operation in database.

13) Create an application that designs a layout having **three Radio buttons** named Bold, Italic, Bold Italic and one text view. The text view must contain a static text.

When the Bold Radio Button is clicked than the text in the text view must convert to Bold. When the Italic Radio Button is clicked than the text in the text view must convert to Italic. When the Bold Italic Radio Button is clicked than the text in the text view must convert to bold and italic both.

14) Create an application that designs a layout having a **toggle button and a text view**. The toggle button should be set OFF as default. When the user sets the toggle button ON than 5 hotel names should be displayed in the text view. When the toggle button is set OFF than nothing should be displayed in the text view. The names of the hotels should be fetched from the resources folder.

15) Create an application that designs a layout having three Radio buttons named Green, Red, Blue and one text view. The text view must contain a static text. When the Green Radio Button is clicked than the font color of the text in the text view must be changed to Green. When the Red Radio Button is clicked than the font color of the text in the text view must be changed to Red. When the Blue Radio Button is clicked than the font color of the text in the text view must be changed to Blue.

16) Create an application that designs a layout to get details about student such as enrollment no. (Text box), name (text box), gender (radio button), Course (Spinner), Birth date (Date picker) and a button Submit. When user clicks on button submit all these details should be passed to the next layout and display it as summary.

17) Create an application provides a layout to make a Railway Ticket Booking Form. Details like Name (textbox), Address (textbox), DOB (Date picker), From_destination (spinner), To_destination (spinner), Train_name (textbox). Also provide another layout to display all this details as a summary in the next screen. Age should also be displayed in the next layout (Hint: Age should be calculated automatically when the submit button is clicked).

18) Create an application that designs a layout for making an Admission Form. The layout should contain details like student enrollment no (textbox), Sem (spinner), Course (spinner), Date (date control), DOB (Date picker), SSC marks (textbox), HSC Marks (spinner), CMAT Score (Textbox) and a button named Submit. When the button submit is clicked than a new layout should be opened that displays all the student details as a summary and also display Merit Score. Merit Score should be calculated when the submit button is clicked. Merit score = Average of (SSC marks, HSC Marks, CMAT score)

19) Create an application that designs a layout for making a profile page. The layout should contain information like first name (textbox), last name (textbox), email (textbox), password (textbox), date of birth (date picker) and a button named submit. All the details should be entered by the user. When submit button is clicked than new layout should be opened and all the information should be displayed as

s summary and age should also be displayed. Age should be calculated when the submit button is clicked.

20)   Create an application that designs a layout having **autocompleteTextView** which displays list of matching colors as user starts entering color name and based on the selected colour, text colour of TextView should change. [e.g. If user starts entering "bl".. then your list should display blue, black colors and if user selects blue then change text color to blue].

21)   Create an application that designs a layout containing spinner. The spinner should contain value of different colors. The value of colors should be fetched from the resources folder. When the user selects appropriate color then the background color of the layout should be changed to the selected color.

22)   Create an application named Angle Converter that designs a layout having one text box and two spinners and one text view and a button named convert. The data for conversion must be entered by the user in the text box. The two spinners should contain the units of conversion like Degree, Radian, Gradian. The data for conversion should be entered by the user. User should select the units from the spinner for conversion. When the button convert is clicked then the result should be displayed in the text view. (e.g.: convert data from Degree to Radian then than the user will select Degree in one spinner and Radian in another spinner).