MID-TERM EXAM

Submission Due Date: 2nd **March, 2022 7:00 PM EST**

Marks/Weightage: 100/25%

Student Name: _____

Student ID: _____

Read the following general instructions carefully:

- This lab test **must be completed individually** by all the students.
- Read the project **naming and submission guidelines** carefully.
- After completion and testing, **submit the project through the Mid-Term Exam link on e-Centennial**.
- **Only the .zip file is accepted**
- **Only one zip file and one upload is allowed.**

Android project naming rules:

You **must** name your Android Studio project at the start of the Android Studio, according to the following rule:
Yourfullname_CourseCode_Midterm

Example: **JohnSmith_COMP304_ Midterm**

Submission rules: [Only the .zip file is accepted and only one zip file and only one upload is allowed]

Archive your project in a **zip file** named according to the following rule:
Yourfullname_CourseCode_SectionNumber _Midterm.zip
Example: **JohnSmith_COMP304_ Midterm.zip (**e.g. if your section number is 001. Ignore if it does not apply)

Upload the project through the **Mid-Term Exam link** on **eCentennial**.

Integrated Development Environment (IDE):

Android Studio - version - Android Studio Arctic Fox | 2020.3.1 Patch 4
Android Operating System - Android 10 (Q)
Android Gradle Plugins - version 7.0.4
Android Gradle Scripts - version 7.0.2
Emulator - API level 29

Exercise #1   **[100 marks]**

Create an Android app that allows users to save the names of their favorite sports player.

a) The first activity – **MainActivity** simply displays a **logo (Use shape drawable)**, **Text, Input and Button. Also have an Options MENU with 2 or more options which are name of sports. (You are free to select any sport of your choice) (If student's name starts from A-K Logo should be circle, If L-Z logo should be square)**   [i] **[25]**

b) Allow user to Enter name and click Proceed Button. **If empty show a toast**, if not go to next **HomeActivity.** Whichever name user entered in First Screen use it in Welcome Message.   [i][ii] **[15]**

c) If user selects a sport on Main Screen [iv], Show a Toast with Favorite Player Saved for that sport[vi]. If not saved show DEFAULT [v].   **[20]**

d) The **HomeActivity** allows the user to save the names of sports player of **2 or more** sports. Remember your lectures and lab exercise. You need to save in such a way that even if you close and re-launch your app, User should see favorite player if saved in first activity.   [iii] **[25]**

e) Use proper coding convention and good Android Developer practices as discussed in the project   **[10]**

f) Good user UI as per expectations and No crashes or issues with project.   **[5]**
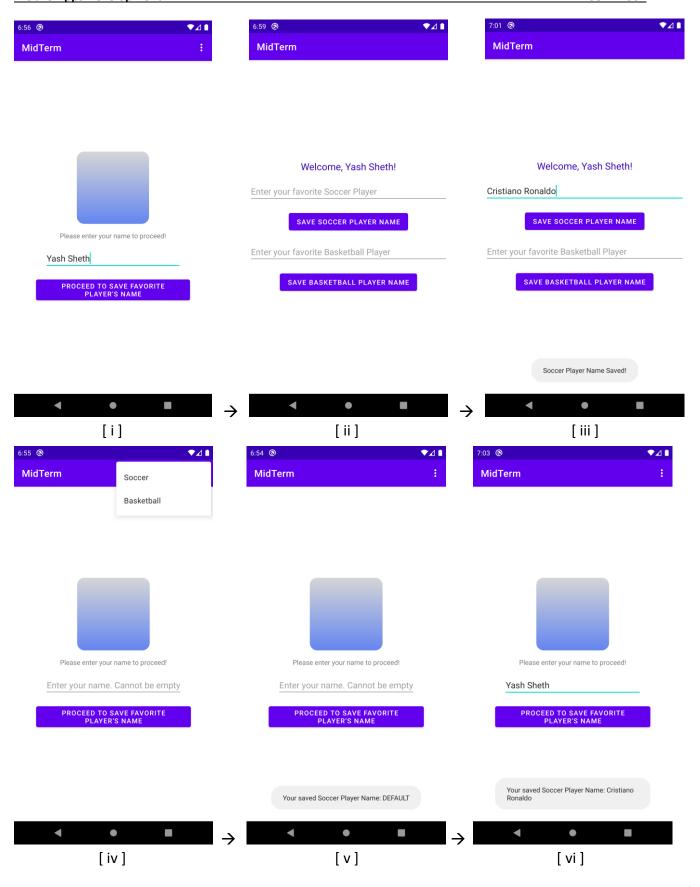

Notes:
Please refer to the images [i] to [vi] on next page.
Make sure your Midterm Android Application Zip is uploaded properly.
If you have any question, please ask in the class.

[i] → [ii] → [iii]

[iv] → [v] → [vi]