Centurion UNIVERSITY Supping Lives. Expowering Communities	School: Campus:
	Academic Year: Subject Name: Subject Code:
	Semester: Program: Branch: Specialization:
	Date:
	Applied and Action Learning (Learning by Doing and Discovery)
Name of	the Experiement :
Coding	g Phase: Pseudo Code / Flow Chart / Algorithm
Open A	Android Studio
•	Launch Android Studio and create a new project or open an existing one.
Create	or Edit the XML Layout File
•	In your project's res/layout folder, create or modify an XML file for the login page.
•	Add the following UI elements:
•	EditText for Username
•	EditText for Password
•	Button for Login

Go to the Corresponding Activity/Fragment

• Navigate to the .java or .kt file associated with your layout.

Initialize UI Components in Code

• Use findViewById() to reference the username field, password field, and login button.

Set an OnClickListener for the Login Button

- Inside the listener, validate the entered credentials.
- If credentials are incorrect or empty, proceed to create an Alert Dialog.

Create the AlertDialog Builder

- Instantiate AlertDialog.Builder within the onClick method.
- Set the title, message, and positive/negative buttons.

Handle Dialog Button Clicks

- In .setPositiveButton(), define the action for confirmation (e.g., retry or clear fields).
- In .setNegativeButton(), define the action for cancellation (e.g., dismiss the dialog).

Show the Dialog

• Call .show() on the AlertDialog.Builder instance to display the dialog.

Test the Application

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There is no error.		

Implementation Phase: Final Output(no error)

Step 1: Design the Layout

- Open activity main.xml from the res \rightarrow layout folder.
- Drag a **Button** from the **Palette** to the design view.

Configuring colors.xml (For Custom Theme/Style)

Location: res \rightarrow values \rightarrow colors.xml

```
description

description
```

Open customedit.xml from res \rightarrow values.

Implementation Phase: Final Output(no error)

Open AndroidManifest.xml in the app \rightarrow src \rightarrow main folder.

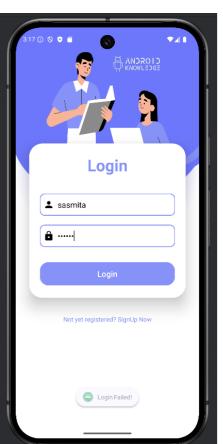
```
activity_main.xml
                    custom_edittext.xml

strings.xml
      <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
          <application
              android:allowBackup="true"
              android:dataExtractionRules="@xml/data_extraction_rules"
              android:fullBackupContent="@xml/backup_rules"
              android:icon="@mipmap/ic_launcher"
              android:roundIcon="@mipmap/ic_launcher_round"
              android:supportsRtl="true"
              tools:targetApi="31">
                  android:name=".MainActivity"
                  android:exported="true">
                  <intent-filter>
                      <category android:name="android.intent.category.LAUNCHER" />
                  </intent-filter>
```

Configuring Mainactivity.java

Click Run.





ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Regn. No.:

Signature of the Faculty:

Applied and Action Learning