	School:	Campus:			
Tringua a	Academic Year: Subject Name:	Subject Code			
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UNIVERSITY Shaping Lives Empowering Communities	Semester: Program: Branch	: Specialization:			
	Date: Applied and Action (Learning by Doing and I	n Learning			
	(Learning by Doing and Discovery)				

Name of the Experiement:

Coding Phase: Pseudo Code / Flow Chart / Algorithm

Open Android Studio

• Launch Android Studio and open your project or create a new one.

Create or Edit the XML Layout File

- In your project's res/layout folder, create or modify an XML file.
- Add a **RadioGroup** containing multiple **RadioButton** options.
- Add a **Button** that will trigger the Alert Dialog.

Go to the Corresponding Activity/Fragment

• Navigate to the .java or .kt file linked to your layout.

Initialize UI Components in Code

• Use findViewById() to reference the RadioGroup and Button.

Set an OnClickListener for the Button

- Inside the listener, get the selected RadioButton from the RadioGroup.
- Display the selected option in an Alert Dialog.

Create the AlertDialog Builder

- Instantiate AlertDialog.Builder within the onClick method.
- Set the title, message (showing the selected option), and positive/negative buttons for user interaction.

Handle Dialog Button Clicks

- In .setPositiveButton(), define the action (e.g., confirm selection).
- In .setNegativeButton(), define the action (e.g., dismiss the dialog).

Show the Dialog

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

Test the Application

Build and run your project.

Testing Phase: Compilation of Code (error detection)

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.

```
MainActivity.java
                                          M AndroidManifest.xml
                                                                   styles.xml
<
> activity_main.xml ×
       <?xml version="1.0" encoding="utf-8"?>
  ◎ ∨ <androidx.constraintlayout.widget.ConstraintLayout
           xmlns:android="http://schemas.android.com/apk/res/android"
           android:layout_width="match_parent"
           android:layout_height="fill_parent"
           android:background="#00BCD4"
           <RadioGroup
              android:id="@+id/hlo"
               android:layout_width="302dp"
               android:layout_height="190dp"
               app:layout_constraintBottom_toBottomOf="parent"
               app:layout_constraintEnd_toEndOf="parent"
               app:layout_constraintHorizontal_bias="0.386"
               app:layout_constraintStart_toStartOf="parent"
               app:layout_constraintTop_toTopOf="parent">
               <RadioButton
                   android:id="@+id/radioButton"
                   android:layout_width="164dp"
                   android:layout_height="57dp"
                   android:text="Cricket" />
```

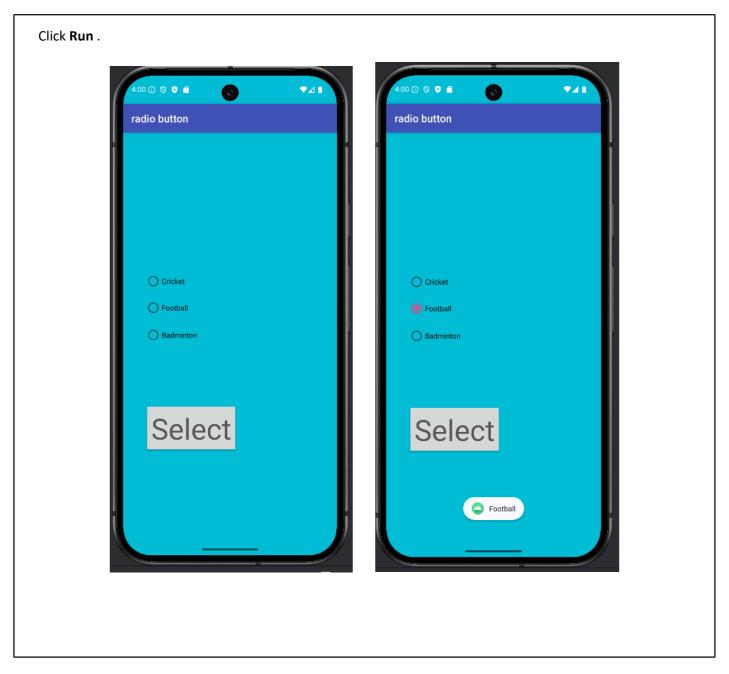
Configuring styles.xml (For Custom Theme/Style)

Location: res \rightarrow values \rightarrow styles.xml

Implementation Phase: Final Output(no error)

Open AndroidManifest.xml in the app \rightarrow src \rightarrow main folder. add android:exported="true" to the activity tag with an intent filter.

Configuring Mainactivity.java



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