

Experiment 2.2

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Subject Name: Mobile Application Development Lab Subject Code: 20CSP-356

1. **Aim:**

Create an Android App using various controls such TexEdit, CheckBox, RadioButton, RadioGroup, etc.

2. System Requirements:

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- 4 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the Android Emulator)
- 2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- Java JDK5 or later version
- Java Runtime Environment (JRE) 6 Android Studio

3. Steps/Program:

Step 1: Create new Project

Step 2: Write the code and run the program

4. Code:

1. MainActivity.java

```
package com.example.experiment_5;

//import android.support.v7.app.AppCompatActivity; import
android.os.Bundle; import android.view.View; import
android.widget.CheckBox; import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity { CheckBox ch, ch1, ch2, ch3;

@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
    // Finding CheckBox by its unique ID
                                           ch=(CheckBox)findViewById(R.id.checkBox);
ch1=(CheckBox)findViewById(R.id.checkBox2);
                                                 ch2=(CheckBox)findViewById(R.id.checkBox3);
ch3=(CheckBox)findViewById(R.id.checkBox4);
  public void Check(View v)
    String msg="";
    // isChecked() is used to check whether
                                          // the CheckBox
    if(ch.isChecked())
                            msg = msg + "
Writing "; if(ch1.isChecked())
msg = msg + "Reading";
if(ch2.isChecked())
                        msg = msg + "
Playing "; if(ch3.isChecked())
      msg = msg + "Cooking"
    Toast.makeText(this, msg + "are selected by Gokul (UID- 20BCS9552)",
        Toast.LENGTH_LONG).show();
```

2. Actuivity_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent" android:background="#ffffff"
android:orientation="vertical"
tools:context="com.example.experiment_5.MainActivity"
tools:ignore="ExtraText">
<TextView
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"</pre>
```

```
android:layout_marginEnd="8dp"
    android:layout_marginStart="8dp"
    android:layout_marginTop="48dp"
    app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
  <CheckBox
    android:id="@+id/checkBox"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:text="Writing" android:layout_marginTop="16dp"
android:textSize="18sp"/>
  <CheckBox
    android:id="@+id/checkBox2"
android:layout_width="match_parent"
  android:layout_height="wrap_content"
                          android:layout_marginTop="16dp"
  <CheckBox
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:layout_marginTop="16dp"
android:text="Playing" android:textSize="18sp"
  app:layout_constraintTop_toTopOf="@+id/textView"
tools:layout_editor_absoluteX="382dp" />
  <CheckBox
    android:id="@+id/checkBox4"
android:layout width="match parent"
  android:layout_height="wrap_content"
```

5. OUTPUT:

