

Experiment 2.2

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

1. Aim:

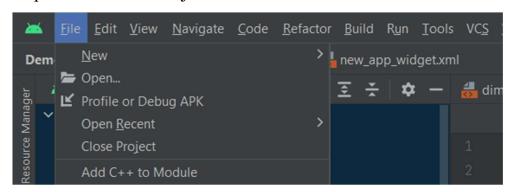
Create an Android App using various controls such TexEdit, CheckBox, RadioButton, RadioGroup, etc.

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:

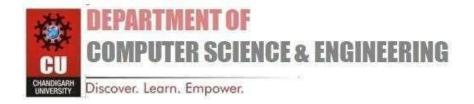
1. MainActivity.java

```
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);
        // Binding MainActivity.java with activity_main.xml file
        setContentView(R.layout.activity_main);
        ch=(CheckBox)findViewById(R.id.checkBox);
        ch1=(CheckBox) findViewById(R.id.checkBox2);
        ch2=(CheckBox)findViewById(R.id.checkBox3);
        ch3=(CheckBox)findViewById(R.id.checkBox4);
    // This function is invoked when the button is pressed.
    public void Check(View v)
        String msg="";
        // Concatenation of the checked options in if
        // isChecked() is used to check whether
        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 is created to display the
        // message using show() method.
        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</pre>
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:id="@+id/textView"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout marginEnd="8dp"
        android:layout marginStart="8dp"
        android:layout marginTop="48dp"
        android:text="Choose your hobbies:"
        android:textSize="24sp"
        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:text="Reading"
    android:layout marginTop="16dp"
    android:textSize="18sp" />
```

```
<CheckBox
        android:id="@+id/checkBox3"
   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"
   android:text="Cooking"
   android:layout marginTop="16dp"
   android:textSize="18sp"
    app:layout_constraintTop toBottomOf="@+id/checkBox"
    tools:layout editor absoluteX="386dp" />
   <Button
       android:id="@+id/button"
   android:layout width="match parent"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
   android:onClick="Check"
   android:text="submit" />
</LinearLayout>
```



5. OUTPUT:

