Experiment 2.2

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Branch: BE-CSE Section/Group:20BCS_DM-716 B
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Subject Name: MAD LAB Subject Code: 20CSP_356

1. Aim:

To create an android app using various controls such TextEdit, CheckBox, RadioButton, RadioGroup, etc.

2. Objective:

To learn about the App widget and how to use them. Learn to scroll and drag in android studio.

3. Code and output:

```
package com.example.my15;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  RadioGroup radioGroup;
  RadioButton radioButton;
  TextView textView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    radioGroup=findViewById(R.id.radioGroup);
    textView=findViewById(R.id.textView);
```

```
Button buttonApply = findViewById(R.id.button);
           buttonApply.setOnClickListener(new View.OnClickListener(){
             public void onClick(View v){
               int radioId = radioGroup.getCheckedRadioButtonId();
               radioButton = findViewById(radioId);
               textView.setText("Your choice: "+radioButton.getText());
             }
           });
         }
         public void checkButton(View v){
           int radioId = radioGroup.getCheckedRadioButtonId();
           radioButton = findViewById(radioId);
           Context context;
           Toast.makeText(this, "Selected Radio Button: "+
          radioButton.getText(),Toast.LENGTH SHORT).show();
        }
      }
XML:-
        <?xml version="1.0" encoding="utf-8"?>
        <androidx.constraintlayout.widget.ConstraintLayout
           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"
          tools:context=".MainActivity">
          <RadioGroup
            android:id="@+id/radioGroup"
            android:layout width="251dp"
            android:layout height="193dp"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout constraintEnd toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.496"
            app:layout constraintStart toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout constraintVertical bias="0.465">
            < Radio Button
              android:id="@+id/radioButton5"
```

```
android:layout width="match parent"
    android:layout height="wrap content"
    android:onClick="checkButton"
    android:text="Computer Networking" />
  < Radio Button
    android:id="@+id/radioButton6"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:onClick="checkButton"
    android:text="Information Security" />
  < Radio Button
    android:id="@+id/radioButton8"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:onClick="checkButton"
    android:text="Mobile Application Development" />
  < Radio Button
    android:id="@+id/radioButton4"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:onClick="checkButton"
    android:text="Theory of Computation" />
</RadioGroup>
<TextView
  android:id="@+id/textView"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="TextView"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.498"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout constraintVertical bias="0.855" />
```

</androidx.constraintlayout.widget.ConstraintLayout>



