

Mobile Programming

Assignment 4 - Spinner

(Assignment for Attendance)

Name: Tushar Mahajan

PRN: 21030121193

Div: A

Group: 2

activity_main.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"
    android:background="@drawable/bg"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter Sentence"
        android:textColor="#000000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.05"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.28" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
android:text="Select Operation"
android:textColor="#000000"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.052"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.415" />
```

<EditText

```
android:id="@+id/e1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
android:textColor="#000000"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.726"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.253" />
```

<Spinner

```
android:id="@+id/s1"
android:layout_width="254dp"
android:layout_height="39dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.929"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.398" />
```

<Button

```
android:id="@+id/b1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Submit"
app:layout_constraintBottom_toBottomOf="parent"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.657" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.mahajant99.collegeten;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.ArrayAdapter;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.Spinner;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button b1;
```

```
    Spinner s1;
```

```
    EditText e1;
```

```
    int wordCount(String n){
```

```
        int c=1;
```

```
        for (int i = 0; i <n.length(); i++) {
```

```
            if(n.charAt(i)==' ')
```

```
                c++;
```

```
        }
```

```
        return c;
```

```
    }
```

```
    int vowelCount(String n){
```

```
        n=n.toUpperCase();
```

```
        int c=0;
```

```
        for (int i = 0; i < n.length(); i++) {
```

```

        if(n.charAt(i)=='A' ||n.charAt(i)=='E' ||n.charAt(i)=='I' ||n.charAt(i)=='O'
||n.charAt(i)=='U' )
            c++;
    }
    return c;
}

```

@Override

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    b1=findViewById(R.id.b1);
    e1=findViewById(R.id.e1);
    s1=findViewById(R.id.s1);

    String data[]={"No. of words","each word print","vowel count"};
    ArrayAdapter<String> aa=new ArrayAdapter<String>(getApplicationContext(),
android.R.layout.simple_spinner_item,data);
    aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    s1.setAdapter(aa);

    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

            String z=s1.getSelectedItem().toString();
            if(z.equalsIgnoreCase("No. of words")){
                Toast.makeText(getApplicationContext(),"No. of Words =
"+wordCount(e1.getText().toString()),Toast.LENGTH_LONG).show();
            }
            else if(z.equalsIgnoreCase("each word print")){
                String x=e1.getText().toString();
                String b="";
                for (int i = 0; i <x.length() ; i++) {
                    if(x.charAt(i)!=' ')
                        b=b+x.charAt(i);
                    else

```

```
        b+="\n";
    }
    Toast.makeText(getApplicationContext(),b,Toast.LENGTH_SHORT).show();
}
else if(z.equalsIgnoreCase("vowel count")) {
    Toast.makeText(getApplicationContext(), "Vowel Count =
"+vowelCount(e1.getText().toString()), Toast.LENGTH_LONG).show();
}
}

});

}
}
```

Images



