1. Develop an application to display your personal details using GUI Components. activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
 android:orientation="vertical"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:padding="16dp">
 <TextView
   android:id="@+id/titleTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Personal Details"
   android:textSize="24sp"
   android:layout_gravity="center_horizontal"
   android:layout_marginTop="40dp"/>
 <EditText
   android:id="@+id/nameEditText"
   android:layout_width="match_parent"
   android:layout height="wrap content"
   android:hint="Enter Name"
   android:layout_marginTop="20dp"/>
 <EditText
   android:id="@+id/ageEditText"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Enter Age"
   android:inputType="number"
   android:layout_marginTop="10dp"/>
 <EditText
   android:id="@+id/emailEditText"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Enter Email"
   android:inputType="textEmailAddress"
   android:layout_marginTop="10dp"/>
 <Button
   android:id="@+id/displayButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Display Details"
   android:layout_gravity="center_horizontal"
   android:layout_marginTop="20dp"/>
 <TextView
   android:id="@+id/detailsTextView"
   android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:textSize="18sp"
android:layout_gravity="center_horizontal"
android:layout_marginTop="20dp"/>
</LinearLayout>
```

```
package com.example.personaldetails;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  private EditText nameEditText, ageEditText, emailEditText;
  private TextView detailsTextView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    nameEditText = findViewById(R.id.nameEditText);
    ageEditText = findViewById(R.id.ageEditText);
    emailEditText = findViewById(R.id.emailEditText);
    detailsTextView = findViewById(R.id.detailsTextView);
    Button displayButton = findViewById(R.id. displayButton);
    displayButton.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View v) {
        displayDetails();
    });
  private void displayDetails() {
    String name = nameEditText.getText().toString();
    String age = ageEditText.getText().toString();
    String email = emailEditText.getText().toString();
    detailsTextView.setText(String.format("Name: %s\nAge: %s\nEmail: %s", name, age,
email));
```



# 2. Develop an application that uses Frame Layout.

### activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 android:layout_width="match_parent"
 android:layout_height="match_parent">
 <TextView
   android:id="@+id/txtvw1"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Login Details"
   android:textSize="20sp"/>
 <EditText
   android:id="@+id/editText1"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_marginTop="80dp"
   android:hint="Enter your email" />
```

```
<EditText
android:id="@+id/editText2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginTop="150dp"
android:hint="Enter password" />

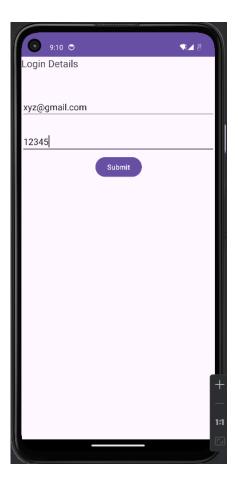
<Button
android:id="@+id/btn1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginLeft="150dp"
android:layout_marginTop="200dp"
android:text="Submit" />

</FrameLayout>
```

```
package com.example.framelayout;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    TextView textView;
    EditText editText1, editText2;

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

    textView = findViewById(R.id.txtvw1);
    editText1 = findViewById(R.id.editText2);
    editText2 = findViewById(R.id.editText2);
}
```



3. Develop an application that finds greatest among THREE numbers using GUI Components. activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 <EditText
   android:id="@+id/num1EditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:hint="Enter number 1"
   android:inputType="number"/>
 <EditText
   android:id="@+id/num2EditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/num1EditText"
   android:layout_marginTop="16dp"
```

```
android:hint="Enter number 2"
   android:inputType="number"/>
  <EditText
   android:id="@+id/num3EditText"
   android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/num2EditText"
    android:layout marginTop="16dp"
    android:hint="Enter number 3"
    android:inputType="number"/>
  <Button
   android:id="@+id/findButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
    android:layout_below="@id/num3EditText"
   android:layout_marginTop="16dp"
    android:text="Find Greatest"
    android:layout_centerHorizontal="true"/>
  <TextView
   android:id="@+id/resultTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/findButton"
    android:layout_marginTop="16dp"
   android:textSize="18sp"
   android:textColor="#333333"
    android:layout_centerHorizontal="true"/>
</RelativeLayout>
```

```
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

private EditText num1EditText, num2EditText, num3EditText;
private Button findButton;
private TextView resultTextView;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);
num1EditText = findViewById(R.id.num1EditText);
num2EditText = findViewById(R.id.num2EditText);
num3EditText = findViewById(R.id.num3EditText);
findButton = findViewById(R.id.findButton);
resultTextView = findViewById(R.id.resultTextView);

findButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        int num1 = Integer.parseInt(num1EditText.getText().toString());
        int num2 = Integer.parseInt(num2EditText.getText().toString());
        int num3 = Integer.parseInt(num3EditText.getText().toString());
        int greatest = Math.max(num1, Math.max(num2, num3));
        resultTextView.setText("Greatest number: " + greatest);
    }
});
}
```



4. Develop an application that uses Layout Managers.

#### activity\_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"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:orientation="vertical">
 <RelativeLayout
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:padding="16dp">
   <TextView
     android:id="@+id/textView1"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Hello"
     android:textSize="18sp"/>
   <TextView
     android:id="@+id/textView2"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:layout_below="@id/textView1"
     android:layout_marginTop="16dp"
     android:text="Everyone!"
     android:textSize="18sp"/>
 </RelativeLayout>
 <Button
   android:id="@+id/button"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Button"
   android:layout_gravity="center_horizontal"
   android:layout_marginTop="16dp"/>
 <androidx.constraintlayout.widget.ConstraintLayout</pre>
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:padding="16dp">
   <TextView
     android:id="@+id/textView3"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="BCA"
     android:textSize="18sp"
     app:layout constraintStart toStartOf="parent"
```

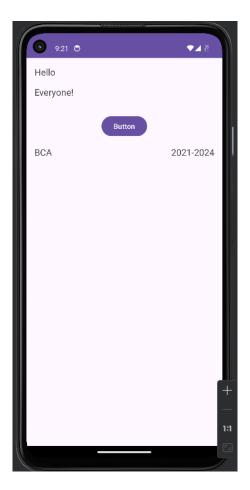
```
app:layout_constraintTop_toTopOf="parent"/>

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="2021-2024"
    android:textSize="18sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>

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

```
package com.example.layoutmanager;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```



# 5. Develop an application that uses the radio button.

# activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 < Radio Group
   android:id="@+id/radioGroup"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:orientation="vertical"
   android:layout_marginTop="24dp">
   < Radio Button
     android:id="@+id/option1RadioButton"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Male" />
```

```
< Radio Button
     android:id="@+id/option2RadioButton"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Female" />
   < Radio Button
     android:id="@+id/option3RadioButton"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Others"/>
 </RadioGroup>
 <Button
   android:id="@+id/showButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Show Selected"
   android:layout_below="@id/radioGroup"
   android:layout_centerHorizontal="true"
   android:layout_marginTop="24dp"/>
  <TextView
   android:id="@+id/resultTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/showButton"
   android:layout centerHorizontal="true"
   android:layout_marginTop="24dp"/>
</RelativeLayout>
```

```
package com.example.radiobutton;

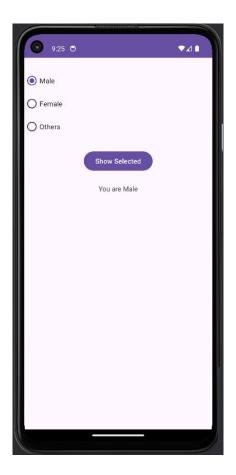
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

   private RadioButton option1RadioButton, option2RadioButton, option3RadioButton;
   private Button showButton;
   private TextView resultTextView;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);
   option1RadioButton = findViewById(R.id.option1RadioButton);
   option2RadioButton = findViewById(R.id.option2RadioButton);
   option3RadioButton = findViewById(R.id.option3RadioButton);
   showButton = findViewById(R.id.showButton);
   resultTextView = findViewById(R.id.resultTextView);
   showButton.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
       if (option1RadioButton.isChecked()) {
         resultTextView.setText("You are Male");
       } else if (option2RadioButton.isChecked()) {
         resultTextView.setText("You are Female");
       } else if (option3RadioButton.isChecked()) {
         resultTextView.setText("You Selected Others");
       } else {
         Toast.makeText(getApplicationContext(), "Please select an option",
Toast.LENGTH_SHORT).show();
   });
```



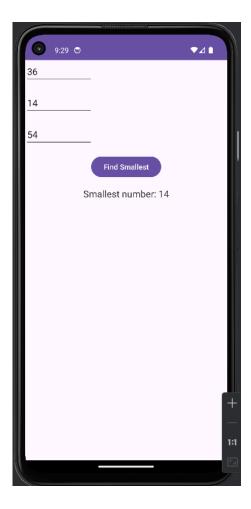
6. Develop an application that finds smallest among THREE numbers using GUI Components. activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 <EditText
   android:id="@+id/num1EditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:hint="Enter number 1"
   android:inputType="number"/>
 <EditText
   android:id="@+id/num2EditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/num1EditText"
   android:layout marginTop="16dp"
   android:hint="Enter number 2"
   android:inputType="number"/>
 <EditText
   android:id="@+id/num3EditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/num2EditText"
   android:layout_marginTop="16dp"
   android:hint="Enter number 3"
   android:inputType="number"/>
 <Button
   android:id="@+id/findButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/num3EditText"
   android:layout_marginTop="16dp"
   android:text="Find Smallest"
   android:layout_centerHorizontal="true"/>
 <TextView
   android:id="@+id/resultTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_below="@id/findButton"
   android:layout_marginTop="16dp"
   android:textSize="18sp"
   android:textColor="#333333"
   android:layout_centerHorizontal="true"/>
```

#### </RelativeLayout>

# MainActivity.java:

```
package com.example.smallestofthree;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  private EditText num1EditText, num2EditText, num3EditText;
  private Button findButton;
  private TextView resultTextView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    num1EditText = findViewById(R.id.num1EditText);
    num2EditText = findViewById(R.id.num2EditText);
    num3EditText = findViewById(R.id.num3EditText);
    findButton = findViewById(R.id.findButton);
    resultTextView = findViewById(R.id.resultTextView);
    findButton.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
       int num1 = Integer.parseInt(num1EditText.getText().toString());
       int num2 = Integer.parseInt(num2EditText.getText().toString());
       int num3 = Integer.parseInt(num3EditText.getText().toString());
       int greatest = Math.min(num1, Math.min(num2, num3));
        resultTextView.setText("Smallest number: " + greatest);
    });
```



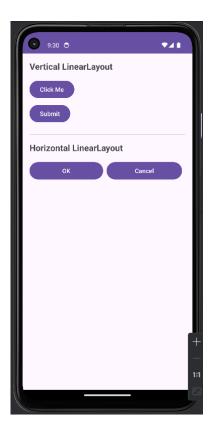
7. Develop an application that uses Linear Layout with both horizontal and vertical views. activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:orientation="vertical"
 android:padding="16dp">
 <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Vertical LinearLayout"
   android:textSize="20sp"
   android:textStyle="bold"
   android:layout_marginBottom="16dp"/>
 <Button
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Click Me"
```

```
android:layout_marginBottom="8dp"/>
 <Button
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Submit"
   android:layout_marginBottom="8dp"/>
 <View
   android:layout_width="match_parent"
   android:layout_height="1dp"
   android:background="#CCCCCC"
   android:layout_marginTop="16dp"
   android:layout_marginBottom="16dp"/>
 <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Horizontal LinearLayout"
   android:textSize="20sp"
   android:textStyle="bold"
   android:layout_marginBottom="16dp"/>
 <LinearLayout
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:orientation="horizontal">
   <Button
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="OK"
     android:layout_weight="1"
     android:layout_marginEnd="8dp"/>
   <Button
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Cancel"
     android:layout_weight="1"
     android:layout_marginEnd="8dp"/>
 </LinearLayout>
</LinearLayout>
```

```
package com.example.linearlayouthorizontalvertical;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```



8. Develop an application that uses Relative Layout.

# activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent">
    android:layout_height="match_parent">

<TextView
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello, Makkale!"
    android:textSize="24sp"
    android:layout_centerInParent="true" />

<Button</pre>
```

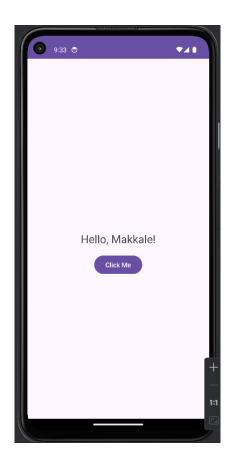
```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Click Me"
android:layout_below="@id/textView"
android:layout_centerHorizontal="true"
android:layout_marginTop="16dp" />
</RelativeLayout>
```

```
package com.example.relativelayout;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

# Output:



9. Develop an application for Student Mark sheet processing. activity\_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 <TextView
   android:id="@+id/mobileApplicationTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Mobile Application Mark:"
   android:layout_marginTop="24dp"/>
 <EditText
   android:id="@+id/mobileApplicationMarkEditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_toEndOf="@id/mobileApplicationTextView"
   android:layout alignBaseline="@id/mobileApplicationTextView"
   android:inputType="number"
   android:layout_marginStart="16dp"/>
 <TextView
   android:id="@+id/dataMiningTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Data Mining Mark:"
   android:layout_below="@id/mobileApplicationTextView"
   android:layout_marginTop="16dp"/>
 <EditText
   android:id="@+id/dataMiningMarkEditText"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_toEndOf="@id/dataMiningTextView"
   android:layout_alignBaseline="@id/dataMiningTextView"
   android:inputType="number"
   android:layout_marginStart="16dp"/>
 <TextView
   android:id="@+id/webDesignTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Web Design Mark:"
   android:layout_below="@id/dataMiningTextView"
   android:layout_marginTop="16dp"/>
 <EditText
   android:id="@+id/webDesignMarkEditText"
```

```
android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_toEndOf="@id/webDesignTextView"
   android:layout_alignBaseline="@id/webDesignTextView"
   android:inputType="number"
   android:layout_marginStart="16dp"/>
 <Button
   android:id="@+id/calculateButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Calculate"
   android:layout_below="@id/webDesignMarkEditText"
   android:layout_centerHorizontal="true"
   android:layout_marginTop="24dp"/>
 <TextView
   android:id="@+id/totalMarksTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Total Marks: '
   android:layout_below="@id/calculateButton"
   android:layout_marginTop="24dp"
   android:layout_centerHorizontal="true"/>
 <TextView
   android:id="@+id/percentageTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Percentage: "
   android:layout_below="@id/totalMarksTextView"
   android:layout_marginTop="16dp"
   android:layout_centerHorizontal="true"/>
 <TextView
   android:id="@+id/gradeTextView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Grade: "
   android:layout_below="@id/percentageTextView"
   android:layout_marginTop="16dp"
   android:layout_centerHorizontal="true"/>
</RelativeLayout>
```

```
package com.example.studentmarksheet;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
 private EditText mobileApplicationMarkEditText, dataMiningMarkEditText,
webDesignMarkEditText;
 private Button calculateButton;
 private TextView totalMarksTextView, percentageTextView, gradeTextView;
 @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
   mobileApplicationMarkEditText = findViewById(R.id.mobileApplicationMarkEditText);
    dataMiningMarkEditText = findViewById(R.id.dataMiningMarkEditText);
   webDesignMarkEditText = findViewById(R.id.webDesignMarkEditText);
    calculateButton = findViewById(R.id.calculateButton);
    totalMarksTextView = findViewById(R.id.totalMarksTextView);
   percentageTextView = findViewById(R.id.percentageTextView);
   gradeTextView = findViewById(R.id.gradeTextView);
   calculateButton.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View v) {
       int mobileApplicationMark =
Integer.parseInt(mobileApplicationMarkEditText.getText().toString());
       int dataMiningMark = Integer.parseInt(dataMiningMarkEditText.getText().toString());
       int webDesignMark = Integer.parseInt(webDesignMarkEditText.getText().toString());
       int totalMarks = mobileApplicationMark + dataMiningMark + webDesignMark;
       float percentage = (float) totalMarks / 3;
       String grade;
       if (percentage \geq 90) {
         grade = "A+";
        } else if (percentage >= 80) {
         grade = "A";
        } else if (percentage >= 70) {
         grade = "B";
       } else if (percentage >= 60) {
         grade = "C";
        } else if (percentage >= 50) {
         grade = "D";
        } else {
         grade = "Fail";
       totalMarksTextView.setText("Total Marks: " + totalMarks);
       percentageTextView.setText("Percentage: " + String.format("%.2f", percentage) +
```

```
gradeTextView.setText("Grade: " + grade);
}
});
}
}
```

