

Student Profile

MainActivity

```
package com.example.studentprofile

import android.os.Bundle
import android.view.View
import android.widget.AdapterView
import android.widget.AdapterView.OnItemClickListener
import android.widget.ArrayAdapter
import android.widget.Button
import android.widget.EditText
import android.widget.Spinner
import android.widget.TextView
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import kotlin.math.round

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        var sub1: EditText = findViewById(R.id.sub1)
        var sub2: EditText = findViewById(R.id.sub2)
```

```

var sub3: EditText = findViewById(R.id.sub3)

var spinner: Spinner = findViewById(R.id.spinner)

var calcbtn: Button = findViewById(R.id.calcbtn)

var result: TextView = findViewById(R.id.result)


var options = arrayOf("Total Marks","Percentage","Grade")

spinner.adapter = ArrayAdapter<String>(this, android.R.layout.simple_list_item_1,options)


var flag="Total Marks"

spinner.onItemSelectedListener = object: AdapterView.OnItemSelectedListener{

    override fun onItemSelected(p0: AdapterView<*>?, p1: View?, p2: Int, p3: Long){

        flag = options.get(p2)

    }


    override fun onNothingSelected(p0: AdapterView<*>?){

    }

}

calcbtn.setOnClickListener{

    var s1 = sub1.text.toString().toDouble()
    var s2 = sub2.text.toString().toDouble()
    var s3 = sub3.text.toString().toDouble()

    var tmarks = 0.0

    var per = ""

    var gr = ""

    if(flag=="Total Marks"){

```

```
tmarks = s1+s2+s3

result.text = "Total Marks(Out of 300): " + tmarks.toString()
}

else if(flag=="Percentage"){

    tmarks = round(((s1+s2+s3)/300)*100 *1000)/1000
    result.text = "Percentage: " + tmarks.toString() + "%"

}

else{
    tmarks = ((s1+s2+s3)/300)*100
    if(tmarks>90.0){
        result.text = "Grade: A"
    }
    else if(tmarks>80.0 && tmarks<90.0 ){
        result.text = "Grade: B"
    }
    else if(tmarks>70.0 && tmarks<80.0 ){
        result.text = "Grade: C"
    }
    else{
        result.text = "Grade: F"
    }

}

}
```

```
}  
}
```

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:id="@+id/main"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    tools:context=".MainActivity">  
  
    <TextView  
        android:id="@+id/textView"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Student Profile"  
        android:textSize="34sp"  
        android:textStyle="bold"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.023" />
```

```
<EditText
```

```
    android:id="@+id/sub1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter Subject 1 Marks"
    android:inputType="number"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.2" />
```

```
<EditText
```

```
    android:id="@+id/sub2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Enter Subject 2 Marks"
    android:inputType="number"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
```

```
app:layout_constraintVertical_bias="0.3" />
```

```
<EditText
```

```
    android:id="@+id/sub3"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:ems="10"
```

```
    android:hint="Enter Subject 3 Marks"
```

```
    android:inputType="number"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.4" />
```

```
<Spinner
```

```
    android:id="@+id/spinner"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.5"
```

```
 />
```

```
<Button
```

```
    android:id="@+id/calcbtn"
```

```

    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Calculate"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.6"
/>

```

<TextView

```

    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Result"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.7" />

```

<TextView

```

    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Grade Scheme:\n\nMarks gt 90 = A\n80 gt Marks lt 90 = B\n70 gt Marks lt 80 = C\nMarks ls 70 = F"
    app:layout_constraintBottom_toBottomOf="parent"

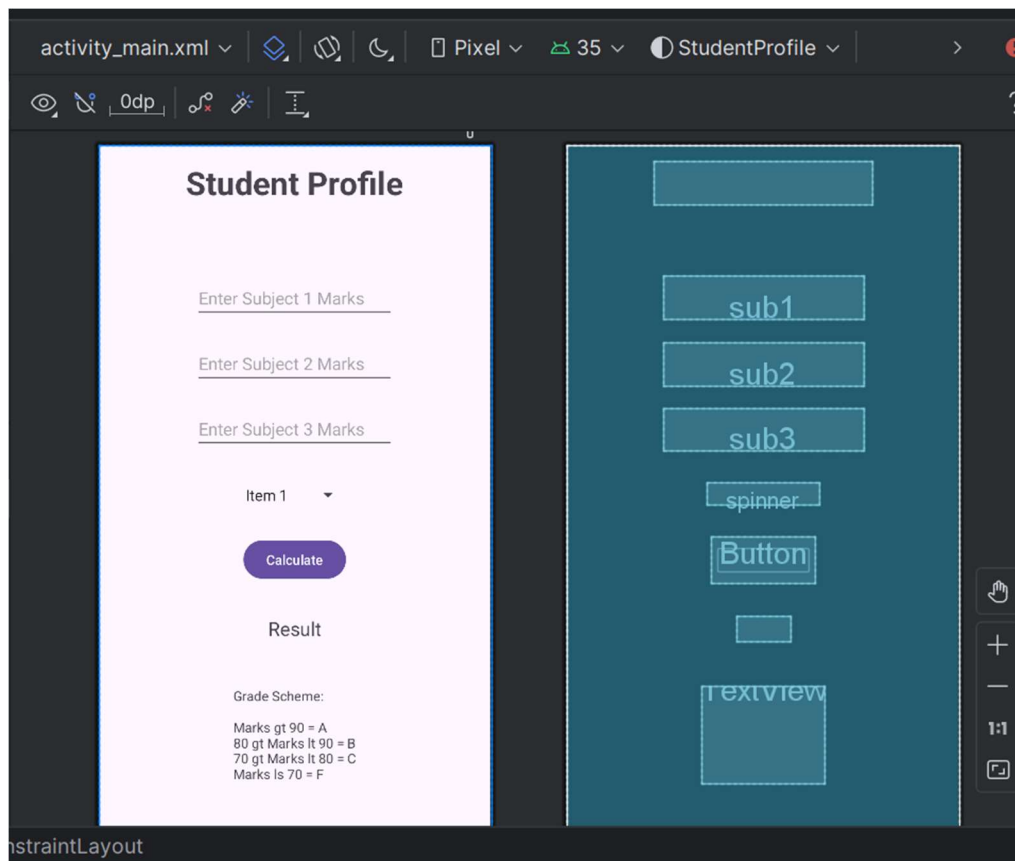
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />
```

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

Screenshots

Design



Output

2:36

Student Profile

100

90

90

Grade ▾

Calculate

Grade: A

Grade Scheme:

- Marks gt 90 = A
- 80 gt Marks lt 90 = B
- 70 gt Marks lt 80 = C
- Marks ls 70 = F

