Mobile Programming
Assignment 4 - Shopping Cart Application

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activity_main.xml

```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">

    <EditText
        android:id="@+id/et2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.825"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.313" />

    <EditText
        android:id="@+id/et1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.825"
```

```xml
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.179" />

    <TextView
            android:id="@+id/textView"
            android:layout_width="101dp"
            android:layout_height="39dp"
            android:text="Username"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.132"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.186" />

    <TextView
            android:id="@+id/tv2"
            android:layout_width="101dp"
            android:layout_height="39dp"
            android:text="Password"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.132"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.329" />

    <Button
            android:id="@+id/b1"
            android:layout_width="92dp"
            android:layout_height="47dp"
            android:text="Login"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent" />

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

MainActivity.java

```java
package com.mahajant99.collegefourteen;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity
{
    Button b1;
    EditText e1,e2;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1 = findViewById(R.id.b1);
        e1 = findViewById(R.id.et1);
        e2 = findViewById(R.id.et2);

        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view) {
                String n = e1.getText().toString();
                String m = e2.getText().toString();

                if(n.equals("user") && m.equals("pass"))
                {
                    Intent i = new Intent(MainActivity.this,MainActivity2.class);
                    startActivity(i);
                }
                else if(n.equals("") || m.equals(""))
                {
                    Toast.makeText(getBaseContext(),"Enter Username & Password",
Toast.LENGTH_SHORT).show();
                }
                else
```

```
        {
            Toast.makeText(getBaseContext(),"Enter Username or Password",
Toast.LENGTH_SHORT).show();
        }
      }
   });
  };
}
```

activity_main2.xml

```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=".MainActivity2">

<TextView
  android:id="@+id/tv1"
  android:layout_width="112dp"
  android:layout_height="52dp"
  android:text="Select Product Category"
  android:textSize="16dp"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.053"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.17" />

<Spinner
  android:id="@+id/s1"
  android:layout_width="201dp"
  android:layout_height="49dp"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.838"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.168"
  tools:ignore="TouchTargetSizeCheck,SpeakableTextPresentCheck" />
```

```xml
<Button
    android:id="@+id/b2"
    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_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.352" />

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

MainActivity2.java

```java
package com.mahajant99.collegefourteen;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.Spinner;

public class MainActivity2 extends AppCompatActivity
{
    Button b;
    Spinner spin;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        b = findViewById(R.id.b2);
        spin = findViewById(R.id.s1);
        ArrayAdapter<String> adapter = new ArrayAdapter<>(MainActivity2.this,
android.R.layout.simple_list_item_1,getResources().getStringArray(R.array.ProCat));
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spin.setAdapter(adapter);

        b.setOnClickListener(v -> {
            Intent i = new Intent(MainActivity2.this,MainActivity3.class);
```

```
                i.putExtra("txt", spin.getSelectedItem().toString());
                startActivity(i);
            });
        }
    }
```

Activity_main3.xml

```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=".MainActivity3">

<Button
    android:id="@+id/b3"
    android:layout_width="112dp"
    android:layout_height="60dp"
    android:text="Add To Cart"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.083"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />

<Button
    android:id="@+id/b4"
    android:layout_width="112dp"
    android:layout_height="60dp"
    android:text="Show Cart"
    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="0.499" />

<Button
    android:id="@+id/b5"
    android:layout_width="112dp"
```

```
    android:layout_height="60dp"
    android:text="Back"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.916"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />

<TextView
    android:id="@+id/tv3"
    android:layout_width="216dp"
    android:layout_height="36dp"
    android:text="Select Category Product List"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.553"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.023" />

<TextView
    android:id="@+id/tv4"
    android:layout_width="158dp"
    android:layout_height="45dp"
    android:text="Product List"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.098"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.106" />

<TextView
    android:id="@+id/tv5"
    android:layout_width="99dp"
    android:layout_height="43dp"
    android:text="Quantity"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.631"
```

```xml
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.106" />

<TextView
    android:id="@+id/tv6"
    android:layout_width="99dp"
    android:layout_height="43dp"
    android:text="Price"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.983"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.109" />

<TextView
    android:id="@+id/tv7"
    android:layout_width="99dp"
    android:layout_height="43dp"
    android:text="Price"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.983"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.194" />

<TextView
    android:id="@+id/tv8"
    android:layout_width="99dp"
    android:layout_height="43dp"
    android:text="Price"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.983"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.283" />

<TextView
```

```xml
    android:id="@+id/tv9"
    android:layout_width="99dp"
    android:layout_height="43dp"
    android:text="Price"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.983"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.379" />

<CheckBox
    android:id="@+id/cb1"
    android:layout_width="155dp"
    android:layout_height="46dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.097"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.195"
    tools:ignore="HardcodedText,TouchTargetSizeCheck" />

<CheckBox
    android:id="@+id/cb3"
    android:layout_width="155dp"
    android:layout_height="44dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.097"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.379"
    tools:ignore="HardcodedText,TouchTargetSizeCheck" />

<CheckBox
    android:id="@+id/cb2"
    android:layout_width="155dp"
    android:layout_height="44dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.097"
    app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.285"
        tools:ignore="HardcodedText,TouchTargetSizeCheck" />

    <EditText
        android:id="@+id/et3"
        android:layout_width="86dp"
        android:layout_height="44dp"
        android:ems="10"
        android:inputType="numberDecimal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.195"
        tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />

    <EditText
        android:id="@+id/et4"
        android:layout_width="86dp"
        android:layout_height="44dp"
        android:ems="10"
        android:inputType="numberDecimal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.282"
        tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />

    <EditText
        android:id="@+id/et5"
        android:layout_width="86dp"
        android:layout_height="44dp"
        android:ems="10"
        android:inputType="numberDecimal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.378"
```

```
            tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />

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

MainActivity3.java

```java
package com.mahajant99.collegefourteen;

import static java.lang.Integer.parseInt;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity3 extends AppCompatActivity {
    CheckBox cb1,cb2,cb3;
    Button b3, b4, b5;
    TextView tv7,tv8,tv9;
    EditText et3, et4, et5;

    @SuppressLint({"MissingInflatedId", "SetTextI18n"})
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        cb1 = findViewById(R.id.cb1);
        cb2 = findViewById(R.id.cb2);
        cb3 = findViewById(R.id.cb3);
        b3 = findViewById(R.id.b3);
        b4 = findViewById(R.id.b4);
        b5 = findViewById(R.id.b5);
        tv7 = findViewById(R.id.tv7);
        tv8 = findViewById(R.id.tv8);
        tv9 = findViewById(R.id.tv9);
        et3 = findViewById(R.id.et3);
        et4 = findViewById(R.id.et4);
        et5 = findViewById(R.id.et5);
```

```java
Intent intent = getIntent();
String cat = intent.getExtras().getString("txt");
if(cat.equals("Electronics"))
{
    cb1.setText("Television");
    tv7.setText("90000");
    cb2.setText("Speakers");
    tv8.setText("1500");
    cb3.setText("Laptop");
    tv9.setText("70000");
}
else if(cat.equals("Food"))
{
    cb1.setText("Donut");
    tv7.setText("90");
    cb2.setText("Ladoo");
    tv8.setText("15");
    cb3.setText("Puranpoli");
    tv9.setText("30");
}
else if(cat.equals("Books"))
{
    cb1.setText("Atomic Habits");
    tv7.setText("250");
    cb2.setText("Rich Dad Poor Dad ");
    tv8.setText("300");
    cb3.setText("Mujhe padhna nahi aata");
    tv9.setText("10");
}

String[] items = new String[3];
String[] price = new String[3];
String[] quant = new String[3];
String[] tot = new String[4];
b3.setOnClickListener(v -> {
    if(cb1.isChecked())
    {
        items[0] = cb1.getText().toString();
        price[0] = tv7.getText().toString();
        quant[0] = et3.getText().toString();
        tot[0] =
String.valueOf(parseInt(et3.getText().toString())*parseInt(tv7.getText().toString()));
        tot[3] =
String.valueOf(parseInt(et3.getText().toString())*parseInt(tv7.getText().toString()));
```

```
        }
    if(cb2.isChecked())
    {
        if(cb1.isChecked())
        {
            items[1] = cb2.getText().toString();
            price[1] = tv8.getText().toString();
            quant[1] = et4.getText().toString();
            tot[1] =
String.valueOf(parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()));
            tot[3] =
String.valueOf((parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()))+(parseInt(et3
.getText().toString())*parseInt(tv7.getText().toString())));
        }
        else
        {
            items[0] = cb2.getText().toString();
            price[0] = tv8.getText().toString();
            quant[0] = et4.getText().toString();
            tot[0] =
String.valueOf(parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()));
            tot[3] =
String.valueOf(parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()));
        }
    }
    if(cb3.isChecked())
    {
        if(cb1.isChecked())
        {
            if(cb2.isChecked())
            {
                items[2] = cb3.getText().toString();
                price[2] = tv9.getText().toString();
                quant[2] = et5.getText().toString();
                tot[2] =
String.valueOf(parseInt(et5.getText().toString())*parseInt(tv9.getText().toString()));
                tot[3] =
String.valueOf((parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()))+(parseInt(et3
.getText().toString())*parseInt(tv7.getText().toString()))+(parseInt(et5.getText().toString())*parseI
nt(tv9.getText().toString())));
            }
            else
            {
                items[1] = cb3.getText().toString();
```

```java
                price[1] = tv9.getText().toString();
                quant[1] = et5.getText().toString();
                tot[1] =
String.valueOf(parseInt(et5.getText().toString())*parseInt(tv9.getText().toString()));
                tot[3] =
String.valueOf(parseInt(et3.getText().toString())*parseInt(tv7.getText().toString())+(parseInt(et5.g
etText().toString())*parseInt(tv9.getText().toString())));
                }
            }
            else if (cb2.isChecked())
            {
                items[1] = cb3.getText().toString();
                price[1] = tv9.getText().toString();
                quant[1] = et5.getText().toString();
                tot[1] =
String.valueOf(parseInt(et5.getText().toString())*parseInt(tv9.getText().toString()));
                tot[3] =
String.valueOf((parseInt(et4.getText().toString())*parseInt(tv8.getText().toString()))+(parseInt(et5
.getText().toString())*parseInt(tv9.getText().toString())));
            }
            else
            {
                items[0] = cb3.getText().toString();
                price[0] = tv9.getText().toString();
                quant[0] = et5.getText().toString();
                tot[0] =
String.valueOf(parseInt(et5.getText().toString())*parseInt(tv9.getText().toString()));
                tot[3] =
String.valueOf(parseInt(et5.getText().toString())*parseInt(tv9.getText().toString()));
            }
        }
    });

    b4.setOnClickListener(v -> {
        Intent i = new Intent(MainActivity3.this,MainActivity4.class);
        i.putExtra("list", items);
        i.putExtra("list1", price);
        i.putExtra("list2", quant);
        i.putExtra("list3", tot);
        startActivity(i);
    });

    b5.setOnClickListener(v -> {
        finish();
```

```
        });
    }
}
```

activity_main4.xml

```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=".MainActivity4">

<TextView
    android:id="@+id/tv11"
    android:layout_width="113dp"
    android:layout_height="44dp"
    android:text="Product List"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.063"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.04" />

<TextView
    android:id="@+id/tv13"
    android:layout_width="113dp"
    android:layout_height="44dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.063"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.133" />

<TextView
    android:id="@+id/tv14"
    android:layout_width="113dp"
    android:layout_height="44dp"
```

```xml
        android:textSize="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.063"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.221" />

    <TextView
        android:id="@+id/tv15"
        android:layout_width="113dp"
        android:layout_height="44dp"
        android:textSize="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.063"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.311" />

    <TextView
        android:id="@+id/tv"
        android:layout_width="73dp"
        android:layout_height="43dp"
        android:text="Unit Price"
        android:textSize="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.665"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.039" />

    <TextView
        android:id="@+id/tv20"
        android:layout_width="73dp"
        android:layout_height="43dp"
        android:textSize="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.665"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.127" />
```

```xml
<TextView
    android:id="@+id/tv21"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.665"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.225" />

<TextView
    android:id="@+id/tv22"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.665"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.311" />

<TextView
    android:id="@+id/tv12"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:text="Total"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.923"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.039" />

<TextView
    android:id="@+id/tv26"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:text="Total"
    android:textSize="16dp"
```

```xml
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.665"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.409" />

<TextView
    android:id="@+id/tv23"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.923"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.13" />

<TextView
    android:id="@+id/tv24"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.923"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.225" />

<TextView
    android:id="@+id/tv25"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.923"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.308" />

<TextView
```

```xml
    android:id="@+id/tv27"
    android:layout_width="73dp"
    android:layout_height="43dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.923"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.409" />

<TextView
    android:id="@+id/tv10"
    android:layout_width="63dp"
    android:layout_height="41dp"
    android:text="Units"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.416"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.042" />

<TextView
    android:id="@+id/tv17"
    android:layout_width="63dp"
    android:layout_height="41dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.416"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.131" />

<TextView
    android:id="@+id/tv18"
    android:layout_width="63dp"
    android:layout_height="41dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.416"
```

```xml
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.224" />

<TextView
    android:id="@+id/tv19"
    android:layout_width="63dp"
    android:layout_height="41dp"
    android:textSize="16dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.416"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.31" />

<Button
    android:id="@+id/b6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Buy"
    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="0.518" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity4.java

```java
package com.mahajant99.collegefourteen;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity4 extends AppCompatActivity {

    TextView tv13, tv14, tv15, tv17, tv18, tv19, tv20, tv21, tv22, tv23, tv24, tv25, tv27;
```

```java
    Button b6;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main4);
        tv13 = findViewById(R.id.tv13);
        tv14 = findViewById(R.id.tv14);
        tv15 = findViewById(R.id.tv15);
        tv17 = findViewById(R.id.tv17);
        tv18 = findViewById(R.id.tv18);
        tv19 = findViewById(R.id.tv19);
        tv20 = findViewById(R.id.tv20);
        tv21 = findViewById(R.id.tv21);
        tv22 = findViewById(R.id.tv22);
        tv23 = findViewById(R.id.tv23);
        tv24 = findViewById(R.id.tv24);
        tv25 = findViewById(R.id.tv25);
        tv27 = findViewById(R.id.tv27);
        b6 = findViewById(R.id.b6);

        Intent intent = getIntent();
        String[] item = intent.getStringArrayExtra("list");
        String[] prices = intent.getStringArrayExtra("list1");
        String[] quantity = intent.getStringArrayExtra("list2");
        String[] total = intent.getStringArrayExtra("list3");

        tv13.setText(item[0]);
        tv14.setText(item[1]);
        tv15.setText(item[2]);
        tv17.setText(quantity[0]);
        tv18.setText(quantity[1]);
        tv19.setText(quantity[2]);
        tv20.setText(prices[0]);
        tv21.setText(prices[1]);
        tv22.setText(prices[2]);
        tv23.setText(total[0]);
        tv24.setText(total[1]);
        tv25.setText(total[2]);
        tv27.setText(total[3]);

        b6.setOnClickListener(v -> {
            Toast.makeText(getApplicationContext(), "Total Bill = " + tv27.getText(),
Toast.LENGTH_SHORT).show();
        });
```

```
      }
}
```

Images