

Spinners-

MainActivity.java-

```
package com.lab8.spinners;

import androidx.appcompat.app.AppCompatActivity;
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;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final Double[] n = {0.0};
        final Double[] d = {0.0};
        final Spinner s1 = (Spinner) findViewById(R.id.spinner);
        final Spinner s2 = (Spinner) findViewById(R.id.spinner2);
        final Spinner s3 = (Spinner) findViewById(R.id.spinner3);
        final Spinner s4 = (Spinner) findViewById(R.id.spinner4);
        final Spinner s5 = (Spinner) findViewById(R.id.spinner5);
        final EditText e5 = (EditText) findViewById(R.id.editText);
        final EditText e6 = (EditText) findViewById(R.id.editText1);
        final EditText e7 = (EditText) findViewById(R.id.editText2);
        final EditText e8 = (EditText) findViewById(R.id.editText3);
        final EditText e9 = (EditText) findViewById(R.id.editText4);
        final EditText e10 = (EditText) findViewById(R.id.editText5);
        final EditText e11 = (EditText) findViewById(R.id.editText6);
        ArrayAdapter<CharSequence> a1= ArrayAdapter.createFromResource
(this,R.array.list,
        R.layout.support_simple_spinner_dropdown_item);
        ArrayAdapter<CharSequence> a2= ArrayAdapter.createFromResource
(this,R.array.dis,
        R.layout.support_simple_spinner_dropdown_item);
        s1.setAdapter(a1);
        s2.setAdapter(a1);
        s3.setAdapter(a1);
        s4.setAdapter(a1);
        s5.setAdapter(a2);

        s1.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
                n[0] = n[0]
+Double.parseDouble(parent.getItemAtPosition(position).toString());
e5.setText(String.valueOf(Double.parseDouble(parent.getItemAtPosition(position).toString())*500));
            }
            @Override
            public void onNothingSelected(AdapterView<?> parent) {
            }
        });

        s2.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position,
long id) {
            n[0] = n[0]
+Double.parseDouble(parent.getItemAtPosition(position).toString());

e6.setText(String.valueOf(Double.parseDouble(parent.getItemAtPosition(position).toStrin
g())*100));
        }
        @Override
        public void onNothingSelected(AdapterView<?> parent) {

        }
    });

    s3.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position,
long id) {
            n[0] = n[0]
+Double.parseDouble(parent.getItemAtPosition(position).toString());

e7.setText(String.valueOf(Double.parseDouble(parent.getItemAtPosition(position).toStrin
g())*200));
        }
        @Override
        public void onNothingSelected(AdapterView<?> parent) {

        }
    });

    s4.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position,
long id) {
            n[0] = n[0]
+Double.parseDouble(parent.getItemAtPosition(position).toString());

e8.setText(String.valueOf(Double.parseDouble(parent.getItemAtPosition(position).toStrin
g())*300));
        }
        @Override
        public void onNothingSelected(AdapterView<?> parent) {

        }
    });

    s5.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position,
long id) {
            d[0] = d[0]
+Double.parseDouble(parent.getItemAtPosition(position).toString());
        }
        @Override
        public void onNothingSelected(AdapterView<?> parent) {

        }
    });

    Button b1=(Button)findViewById(R.id.button);
    b1.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            e9.setText(String.valueOf(n[0]));
            Double sum=
Double.parseDouble(e5.getText().toString())+Double.parseDouble(e6.getText().toString())
+

```

```
Double.parseDouble(e7.getText().toString())+Double.parseDouble(e8.getText().toString())
;
        e10.setText(String.valueOf(sum));
        Double sum1=sum-(sum*d[0]);
        e11.setText(String.valueOf(sum1));
    }
    });
}
```

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"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editText5"
        android:layout_width="85dp"
        android:layout_height="43dp"
        android:layout_marginTop="615dp"
        android:layout_marginEnd="14dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:textSize="20sp"
        app:layout_constraintEnd_toStartOf="@+id/editText6"
        app:layout_constraintTop_toTopOf="@+id/textView" />

    <EditText
        android:id="@+id/editText6"
        android:layout_width="0dp"
        android:layout_height="43dp"
        android:layout_marginTop="615dp"
        android:layout_marginEnd="15dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/textView8"
        app:layout_constraintTop_toTopOf="@+id/textView" />

    <EditText
        android:id="@+id/editText4"
        android:layout_width="85dp"
        android:layout_height="43dp"
        android:layout_marginTop="615dp"
        android:layout_marginEnd="6dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:textSize="20sp"
        app:layout_constraintEnd_toStartOf="@+id/editText5"
        app:layout_constraintTop_toTopOf="@+id/textView" />

    <EditText
        android:id="@+id/editText3"
        android:layout_width="0dp"
        android:layout_height="43dp"
        android:layout_marginTop="374dp"
        android:layout_marginEnd="16dp"
```

```
    android:ems="10"
    android:inputType="textPersonName"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView4"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<EditText

```
    android:id="@+id/editText2"
    android:layout_width="0dp"
    android:layout_height="43dp"
    android:layout_marginTop="290dp"
    android:layout_marginEnd="15dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<Spinner

```
    android:id="@+id/spinner5"
    android:layout_width="0dp"
    android:layout_height="55dp"
    android:layout_marginTop="461dp"
    android:layout_marginEnd="116dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView5"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<Spinner

```
    android:id="@+id/spinner3"
    android:layout_width="65dp"
    android:layout_height="55dp"
    android:layout_marginTop="290dp"
    android:layout_marginEnd="16dp"
    app:layout_constraintEnd_toStartOf="@+id/editText2"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<Spinner

```
    android:id="@+id/spinner4"
    android:layout_width="65dp"
    android:layout_height="55dp"
    android:layout_marginTop="374dp"
    android:layout_marginEnd="15dp"
    app:layout_constraintEnd_toStartOf="@+id/editText3"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<Spinner

```
    android:id="@+id/spinner2"
    android:layout_width="65dp"
    android:layout_height="55dp"
    android:layout_marginTop="214dp"
    android:layout_marginEnd="14dp"
    app:layout_constraintEnd_toStartOf="@+id/editText1"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

<TextView

```
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="29dp"
    android:text="Arduino Project"
    android:textSize="34sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
```

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

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="14dp"
    android:layout_marginTop="134dp"
    android:layout_marginEnd="119dp"
    android:text="1. Arduino Board"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/editText"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="214dp"
    android:layout_marginEnd="133dp"
    android:text="2. Light Sensor"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/editText1"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="290dp"
    android:layout_marginEnd="166dp"
    android:text="3. Bluetooth"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/editText2"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="15dp"
    android:layout_marginTop="374dp"
    android:layout_marginEnd="143dp"
    android:text="4. Wifi Module"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/editText3"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />

<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="15dp"
    android:layout_marginTop="461dp"
    android:layout_marginEnd="100dp"
    android:text="DISCOUNT"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/spinner5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="71dp"
    android:layout_marginEnd="34dp"
    android:text="QTY"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/textView7"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

```
<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="71dp"
    android:layout_marginEnd="47dp"
    android:text="Price"
    android:textSize="24sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

```
<Spinner
    android:id="@+id/spinner"
    android:layout_width="65dp"
    android:layout_height="55dp"
    android:layout_marginTop="134dp"
    android:layout_marginEnd="16dp"
    app:layout_constraintEnd_toStartOf="@+id/editText"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

```
<TextView
    android:id="@+id/textView8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="615dp"
    android:layout_marginEnd="190dp"
    android:text="Total Bill :"
    android:textSize="24sp"
    app:layout_constraintEnd_toStartOf="@+id/editText6"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

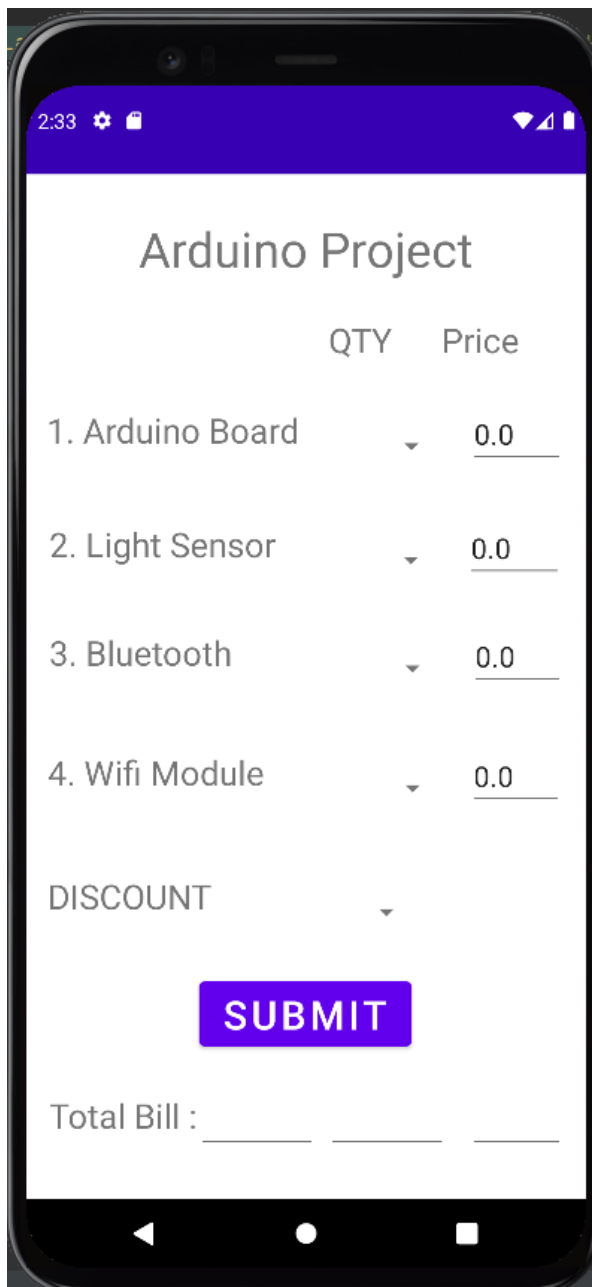
```
<EditText
    android:id="@+id/editText1"
    android:layout_width="0dp"
    android:layout_height="43dp"
    android:layout_marginTop="214dp"
    android:layout_marginEnd="16dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/textView2"
    app:layout_constraintTop_toTopOf="@+id/textView" />
```

```
<EditText
    android:id="@+id/editText"
    android:layout_width="0dp"
    android:layout_height="43dp"
    android:layout_marginTop="134dp"
    android:layout_marginEnd="15dp"
    android:ems="10"
    android:inputType="textPersonName"
```

```
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/textView1"
        app:layout_constraintTop_toTopOf="@+id/textView" />
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="531dp"
        android:layout_marginEnd="6dp"
        android:layout_marginBottom="26dp"
        android:text="submit"
        android:textSize="28sp"
        app:layout_constraintBottom_toTopOf="@+id/editText4"
        app:layout_constraintEnd_toEndOf="@+id/spinner5"
        app:layout_constraintTop_toTopOf="@+id/textView" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

String.xml-

```
<resources>
    <string name="app_name">ApplicationOfSpinners</string>
    <string-array name="list">
        <item>0</item>
        <item>1</item>
        <item>2</item>
        <item>3</item>
        <item>4</item>
        <item>5</item>
        <item>6</item>
        <item>7</item>
        <item>8</item>
        <item>9</item>
        <item>10</item>
    </string-array>
    <string-array name="dis">
        <item>0</item>
        <item>0.1</item>
        <item>0.2</item>
        <item>0.3</item>
        <item>0.4</item>
        <item>0.5</item>
    </string-array>
</resources>
```

Output

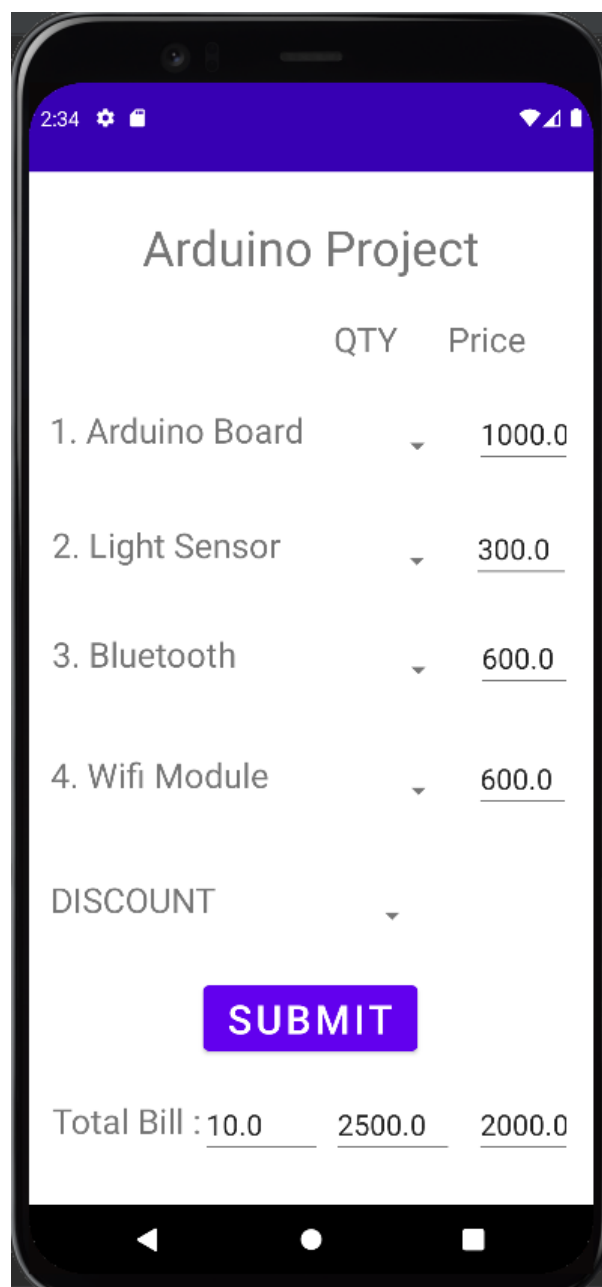
2:33

Arduino Project

	QTY	Price
1. Arduino Board	▼	<u>0.0</u>
2. Light Sensor	▼	<u>0.0</u>
3. Bluetooth	▼	<u>0.0</u>
4. Wifi Module	▼	<u>0.0</u>
DISCOUNT	▼	

SUBMIT

Total Bill : _____



2:34

Arduino Project

	QTY	Price
1. Arduino Board	▼	<u>1000.0</u>
2. Light Sensor	▼	<u>300.0</u>
3. Bluetooth	▼	<u>600.0</u>
4. Wifi Module	▼	<u>600.0</u>
DISCOUNT	▼	

SUBMIT

Total Bill : 10.0 2500.0 2000.0