MOBILE APPLICATION DEVELOPMENT:

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Design the following APP for the IOT store. The cost of Arduino Uno is 500RS, the cost of WIFI
module is 250RS and the Bluetooth module is 200RS. Based on the quantity compute the
Amount payable when submit button is clicked, when clear is clicked clear all the Editboxes.

Java Code:

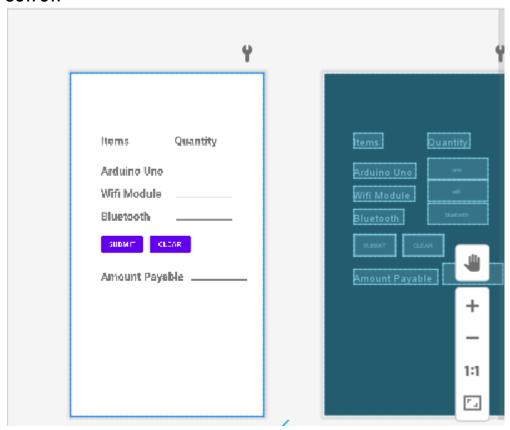
```
package com.example.lab21;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText T1, T2, T3, T4;
    Button B1, B2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        T1 = findViewById(R.id.uno);
        T2 = findViewById(R.id.wifi);
        T3 = findViewById(R.id.bluetooth);
        T4 = findViewById(R.id. Total);
        B1 = findViewById(R.id.submitButton);
        B2 = findViewById(R.id.clearButton);
        B1.setOnClickListener(new View.OnClickListener()
            @Override
            public void onClick(View v)
                int a = Integer.parseInt(T1.getText().toString());
                int b = Integer.parseInt(T2.getText().toString());
                int c = Integer.parseInt(T3.getText().toString());
                int x = a*500;
                int y = b*250;
                int z = c*200;
                int s = x+y+z;
                T4.setText(String.valueOf(s));
        });
        B2.setOnClickListener(new View.OnClickListener()
            @Override
            public void onClick(View v)
```

```
T1.setText("");
                T2.setText("");
                T3.setText("");
                T4.setText("");
       });
   }
}
     XML:
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
    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/bluetooth"
        android:layout width="128dp"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="number"
        app:layout constraintBottom toBottomOf="@+id/textView5"
        app:layout_constraintStart toStartOf="@+id/textView2" />
    <EditText
        android:id="@+id/Total"
        android:layout width="128dp"
        android:layout height="wrap content"
        android:layout marginStart="12dp"
        android:layout marginLeft="12dp"
        android:ems="1\overline{0}"
        android:inputType="number"
        app:layout constraintBottom toBottomOf="@+id/textView6"
        app:layout constraintStart toEndOf="@+id/textView6" />
    <EditText
        android:id="@+id/wifi"
        android:layout width="128dp"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="number"
        app:layout constraintBottom toBottomOf="@+id/textView4"
        app:layout constraintStart toStartOf="@+id/textView2" />
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginStart="64dp"
        android:layout marginLeft="64dp"
        android:layout marginTop="128dp"
        android:text="Items"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout constraintStart toStartOf="parent"
```

```
app:layout constraintTop toTopOf="parent" />
<TextView
   android:id="@+id/textView2"
    android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginStart="96dp"
   android:layout marginLeft="96dp"
   android:layout marginTop="128dp"
   android:text="Quantity"
   android:textSize="24sp"
   android:textStyle="bold"
   app:layout_constraintStart toEndOf="@+id/textView"
   app:layout constraintTop toTopOf="parent" />
<TextView
   android:id="@+id/textView3"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="32dp"
   android:text="Arduino Uno"
   android:textSize="24sp"
   android:textStyle="bold"
   app:layout constraintStart toStartOf="@+id/textView"
   app:layout constraintTop toBottomOf="@+id/textView" />
<TextView
   android:id="@+id/textView4"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
   android:text="Wifi Module"
   android:textSize="24sp"
   android:textStyle="bold"
    app:layout_constraintStart toStartOf="@+id/textView3"
   app:layout_constraintTop toBottomOf="@+id/textView3" />
<TextView
   android:id="@+id/textView5"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
   android:text="Bluetooth"
   android:textSize="24sp"
   android:textStyle="bold"
   app:layout constraintStart toStartOf="@+id/textView4"
   app:layout_constraintTop toBottomOf="@+id/textView4" />
<TextView
   android:id="@+id/textView6"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="28dp"
   android:text="Amount Payable"
   android:textSize="24sp"
   android:textStyle="bold"
   app:layout constraintStart toStartOf="@+id/submitButton"
   app:layout constraintTop toBottomOf="@+id/submitButton" />
<EditText
   android:id="@+id/uno"
   android:layout width="128dp"
   android:layout height="wrap content"
```

```
android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom toBottomOf="@+id/textView3"
        app:layout_constraintStart toStartOf="@+id/textView2" />
    <Button
        android:id="@+id/submitButton"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginTop="20dp"
        android:text="Submit"
        app:layout_constraintStart toStartOf="@+id/textView5"
        app:layout constraintTop toBottomOf="@+id/textView5" />
    <Button
        android:id="@+id/clearButton"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginStart="13dp"
        android:layout marginLeft="13dp"
        android:text="Clear"
        app:layout constraintBottom toBottomOf="@+id/submitButton"
        app:layout constraintStart toEndOf="@+id/submitButton" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:





Items	Quantity
Arduino Uno	
Wifi Module	
Bluetooth	
SUBMIT	EAR

Amount Payable _____



Items
Quantity

Arduino Uno
10

Wifi Module
20

Bluetooth
30

SUBMIT CLEAR

Amount Payable 16000

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2)Design a Currency converter APP.1rs= JAVA CODE:

```
package com.example.lab21;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
public class MainActivity extends AppCompatActivity {
    EditText T1, T2;
    RadioGroup RG;
    RadioButton RB;
    Button B;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        T1 = findViewById(R.id.input);
        T2 = findViewById(R.id.result);
        RG = findViewById(R.id.radioGroup);
        B = findViewById(R.id.convertButton);
        B.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                int radioId = RG.getCheckedRadioButtonId();
                RB = findViewById(radioId);
                float rs = Float.parseFloat(T1.getText().toString());
                String str = RB.getText().toString();
               if(str.equals("USD"))
                    T2.setText(String.valueOf(rs*14/1000));
                else if(str.equals("EURO"))
                    T2.setText(String.valueOf(rs*11/1000));
                else if(str.equals("YEN"))
                    T2.setText(String.valueOf(rs*148/100));
                else
                    T2.setText("");
            }
        });
    }
}
      XML CODE:
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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">
<TextView
   android:id="@+id/textView"
    android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="48dp"
   android:text=" CURRENCY \n CONVERTER"
   android:textAllCaps="false"
   android:textSize="36sp"
   android:textStyle="bold|italic"
   app:layout constraintEnd toEndOf="parent"
   app:layout constraintStart toStartOf="parent"
   app:layout constraintTop toTopOf="parent" />
<EditText
   android:id="@+id/input"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="32dp"
   android:ems="10"
   android:hint="in rs"
   android:inputType="number|textPersonName"
   app:layout constraintEnd toEndOf="parent"
   app:layout constraintStart toStartOf="parent"
   app:layout constraintTop toBottomOf="@+id/textView" />
< Radio Group
   android:id="@+id/radioGroup"
   android:layout width="128dp"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
   android:checkedButton="@id/usdButton"
    app:layout_constraintStart toStartOf="@+id/input"
    app:layout constraintTop toBottomOf="@+id/input">
    <RadioButton
        android:id="@+id/usdButton"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="USD" />
    <RadioButton
        android:id="@+id/euroButton"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="EURO" />
    <RadioButton
        android:id="@+id/yenButton"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="YEN" />
</RadioGroup>
<Button
    android:id="@+id/convertButton"
   android:layout width="200dp"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
```

```
android:text="CONVERT"
    app:layout_constraintStart_toStartOf="@+id/input"
    app:layout_constraintTop_toBottomOf="@+id/radioGroup" />

<EditText
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:ems="10"
    android:inputType="number|textPersonName"
    app:layout_constraintStart_toStartOf="@+id/convertButton"
    app:layout_constraintTop_toBottomOf="@+id/convertButton" />

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



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lab2.1

CURRENCY CONVERTER

50

- O USD
- O EURO
- YEN

CONVERT

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74.0