

MOBILE APPLICATION DEVELOPMENT:

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- 1) 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("");
            }
        });
    }
}
```

```

        T1.setText("");
        T2.setText("");
        T3.setText("");
        T4.setText("");
    }
    });
}
}

```

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/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="10"
        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"

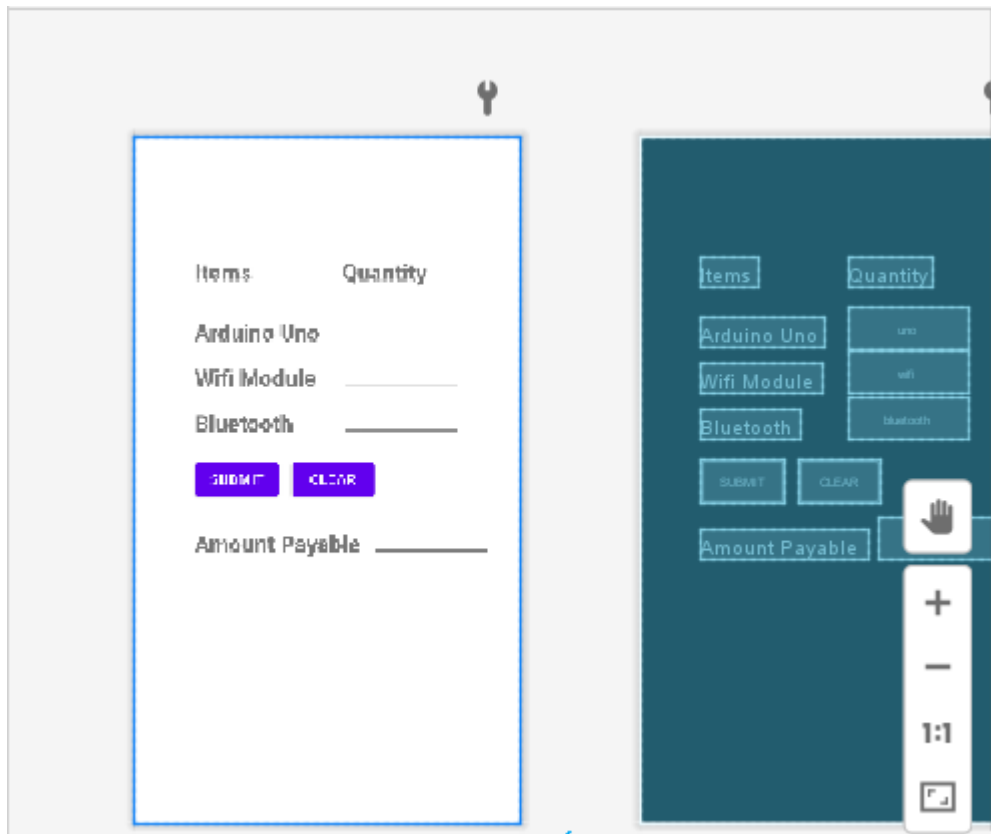
```

```

        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:



3:04

Yo LTE 4G 99

lab2.1

Items

Quantity

Arduino Uno

Wifi Module

Bluetooth

SUBMIT

CLEAR

Amount Payable



3:13

VoLTE 4G 100

lab2.1

Items

Quantity

Arduino Uno

10

Wifi Module

20

Bluetooth

30

SUBMIT

CLEAR

Amount Payable

16000



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
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" />
<RadioGroup
    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"

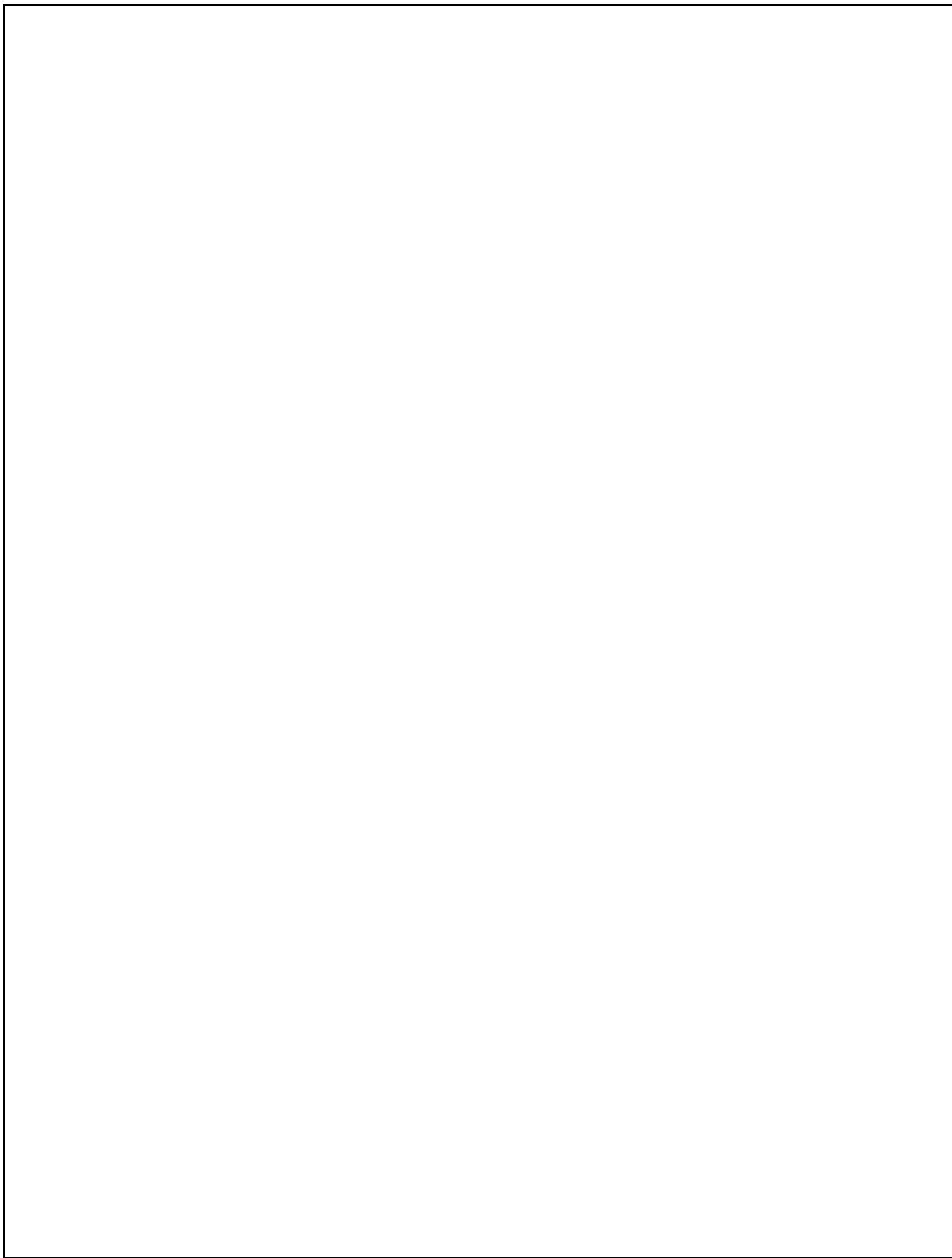
```



```
        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>
```



3:31



lab2.1

CURRENCY CONVERTER

50

☐ USD

☐ EURO

☒ YEN

CONVERT

74.0

