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1 package com.example.assignment3;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.os.Bundle;
7 import android.view.View;
8 import android.widget.Button;
9 import android.widget.EditText;
10 import android.widget.Toast;
11
12 import java.text.DecimalFormat;
13
14 public class VatActivity extends AppCompatActivity implements View.OnClickListener {
15
16     private EditText priceInput, priceShow, vatShow, totalShow;
17     private Button calculateVatButton, backButtonMain2;
18
19     @Override
20     protected void onCreate(Bundle savedInstanceState) {
21         super.onCreate(savedInstanceState);
22         setContentView(R.layout.activity_vat);
23
24         priceInput = (EditText) findViewById(R.id.priceInput);
25         priceShow = (EditText) findViewById(R.id.priceShow);
26         vatShow = (EditText) findViewById(R.id.vatShow);
27         totalShow = (EditText) findViewById(R.id.totalShow);
28
29         calculateVatButton = (Button) findViewById(R.id.calculateVatButton);
30         calculateVatButton.setOnClickListener(this);
31
32         backButtonMain2 = (Button) findViewById(R.id.backButtonMain2);
33         backButtonMain2.setOnClickListener(this);
34
35         priceShow.setEnabled(false);
36         vatShow.setEnabled(false);
37         totalShow.setEnabled(false);
38     }
39
40     @Override
41     public void onClick(View v) {
42         if (v == calculateVatButton) {
43             calcVat();
44         } else if (v == backButtonMain2) {
45             Toast.makeText(this, "Back Main Program", Toast.LENGTH_SHORT).show();
46             Intent launchMain2 = new Intent( this, MainActivity.class);
47             startActivity(launchMain2);
48         }
49     }
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```

```
61 public void calcVat() {
62     DecimalFormat decimalFormat = new DecimalFormat("#,###.00");
63     String priceStr = priceInput.getText().toString();
64
65     if (!priceStr.isEmpty()) {
66         float price = Float.parseFloat(priceStr);
67
68         // Calculate VAT (7% of the price)
69         float vat = (price * 7) / 100;
70
71         // Calculate total price including VAT
72         float totalPrice = price + vat;
73
74         // Format the results with two decimal places
75         String formattedPrice = decimalFormat.format(price);
76         String formattedVat = decimalFormat.format(vat);
77         String formattedTotalPrice = decimalFormat.format(totalPrice);
78
79         // Display the formatted results in the respective EditText fields
80         priceShow.setText(formattedPrice);
81         vatShow.setText(formattedVat);
82         totalShow.setText(formattedTotalPrice);
83     } else {
84         // Handle case when input is empty
85         priceShow.setText("Please enter a price");
86         vatShow.setText("Please enter a price");
87         totalShow.setText("Please enter a price");
88     }
89 }
90 }
91
```