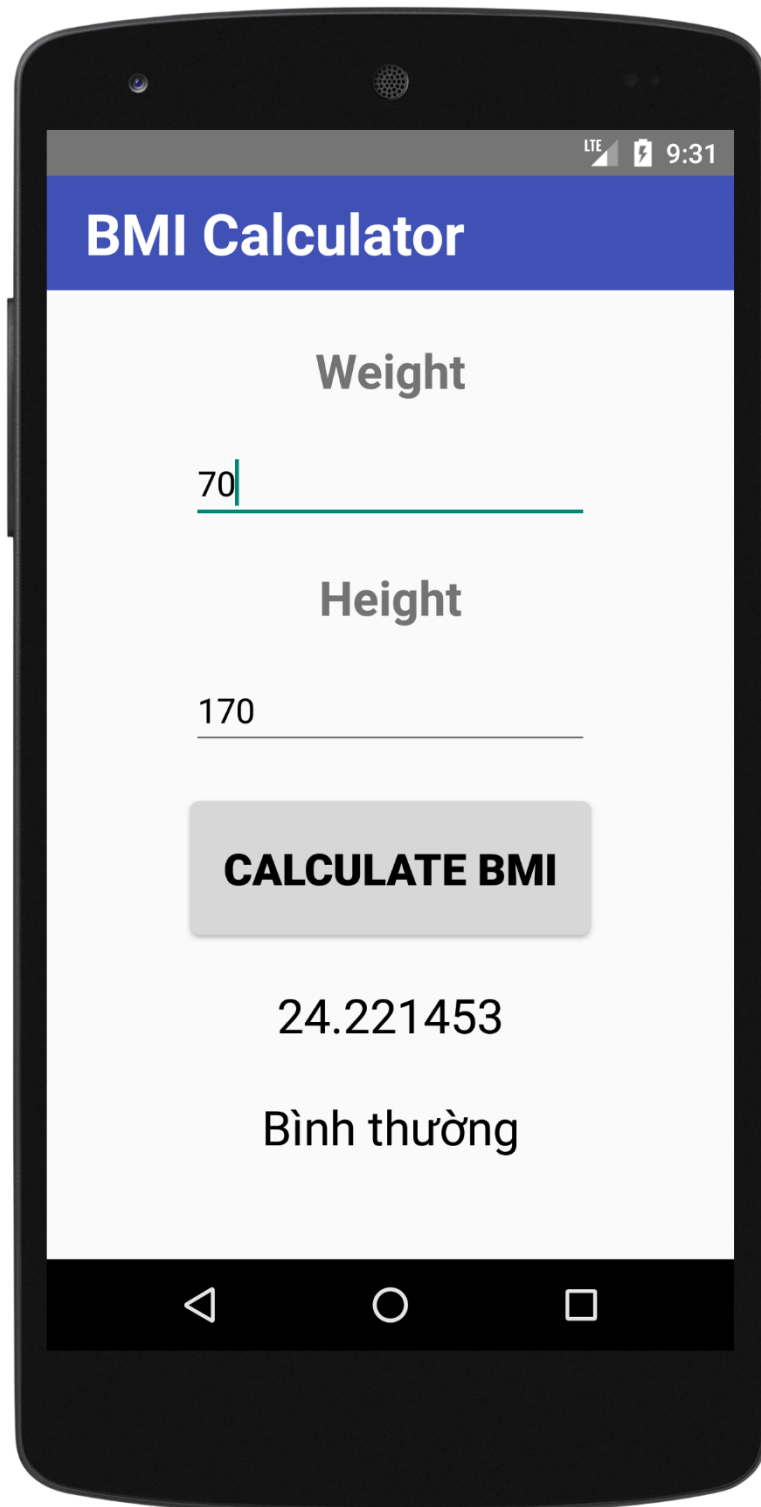


## Báo cáo bài tập: App tính BMI



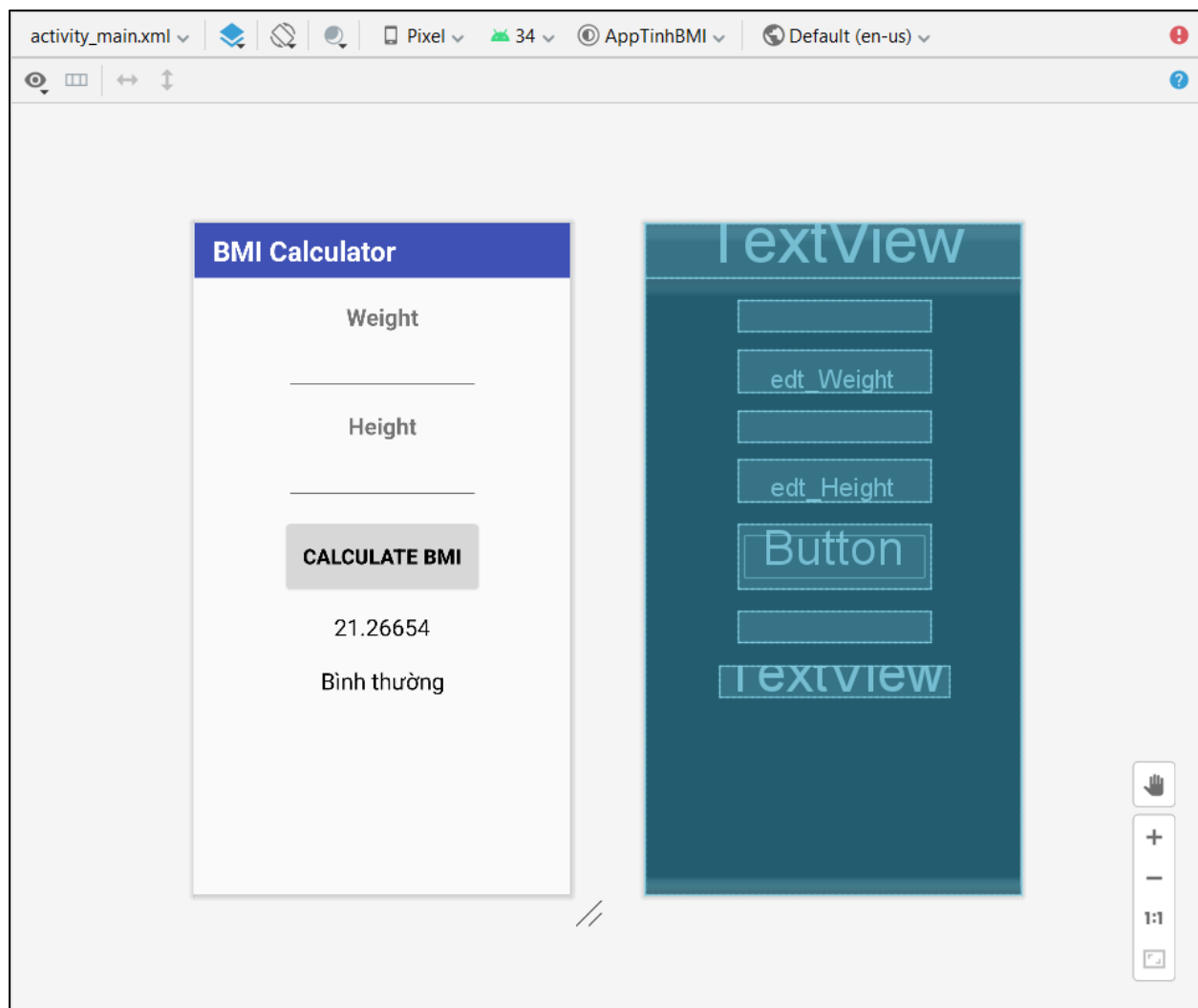
activity\_main.xml

```
activity_main.xml x MainActivity.java x
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3   xmlns:app="http://schemas.android.com/apk/res-auto"
4   xmlns:tools="http://schemas.android.com/tools"
5   android:layout_width="match_parent"
6   android:layout_height="match_parent"
7   android:orientation="vertical"
8   tools:context=".MainActivity">
9
10  <TextView
11    android:layout_width="match_parent"
12    android:layout_height="60dp"
13    android:gravity="center_vertical"
14    android:paddingStart="20dp"
15    android:text="BMI Calculator"
16    android:textSize="30dp"
17    android:textStyle="bold"
18    android:background="#3f51b5"
19    android:textColor="#ffffff"/>
20
21  <LinearLayout
22    android:layout_width="match_parent"
23    android:layout_height="match_parent"
24    android:orientation="vertical"
25    android:paddingTop="25dp">
26
27    <TextView
28      android:layout_width="210dp"
29      android:layout_height="wrap_content"
```

```
activity_main.xml x MainActivity.java x
29      android:layout_height="wrap_content"
30      android:layout_gravity="center"
31      android:gravity="center"
32      android:text="Weight"
33      android:textSize="25dp"
34      android:textStyle="bold" />
35
36  <EditText
37    android:id="@+id/edt_Weight"
38    android:layout_width="210dp"
39    android:layout_height="wrap_content"
40    android:layout_gravity="center"
41    android:layout_marginTop="20dp"
42    android:ems="10"
43    android:gravity="left"
44    android:inputType="number"
45    android:textColor="#000000" />
46
47  <TextView
48    android:layout_width="210dp"
49    android:layout_height="wrap_content"
50    android:layout_gravity="center"
51    android:layout_marginTop="20dp"
52    android:gravity="center"
53    android:text="Height"
54    android:textSize="25dp"
55    android:textStyle="bold" />
56
57  <EditText
```

```
activity_main.xml x MainActivity.java x
57 <EditText
58     android:id="@+id/edt_Height"
59     android:layout_width="210dp"
60     android:layout_height="wrap_content"
61     android:layout_gravity="center"
62     android:layout_marginTop="20dp"
63     android:ems="10"
64     android:gravity="left"
65     android:inputType="number"
66     android:textColor="#000000"/>
67
68 <Button
69     android:id="@+id/btnTinhBMI"
70     android:layout_width="210dp"
71     android:layout_height="70dp"
72     android:layout_gravity="center"
73     android:layout_marginTop="25dp"
74     android:text="CALCULATE BMI"
75     android:textSize="23dp"
76     android:textStyle="bold"
77     android:background="@drawable/custom_button"
78     android:textColor="@drawable/custom_button_text_color"
79     android:onClick="Tinh_BMI_click"/>
80
81 <TextView
82     android:id="@+id/tvBMI"
83     android:layout_width="210dp"
84     android:layout_height="wrap_content"
85     android:layout_gravity="center"
```

```
activity_main.xml x MainActivity.java x
80
81 <TextView
82     android:id="@+id/tvBMI"
83     android:layout_width="210dp"
84     android:layout_height="wrap_content"
85     android:layout_gravity="center"
86     android:layout_marginTop="25dp"
87     android:gravity="center"
88     android:text="21.26654"
89     android:textSize="25dp"
90     android:textColor="#000000"/>
91
92 <TextView
93     android:id="@+id/tvKetLuan"
94     android:layout_width="250dp"
95     android:layout_height="wrap_content"
96     android:layout_gravity="center"
97     android:layout_marginTop="25dp"
98     android:gravity="center"
99     android:text="Bình thường"
100     android:textSize="25dp"
101     android:textColor="#000000"/>
102 </LinearLayout>
103 </LinearLayout>
```



# MainActivity.java

```
MainActivity.java x
1 package com.phamthehung.apptinhbmi;
2
3 import ...
11
2 usages
12 public class MainActivity extends AppCompatActivity {
13     2 usages
14     EditText dk_Weight, dk_Height;
15     2 usages
16     TextView dk_bmi, dk_ketluan;
17
18 @Override
19 protected void onCreate(Bundle savedInstanceState) {
20     super.onCreate(savedInstanceState);
21     setContentView(R.layout.activity_main);
22     findControls();
23 }
24
25 1 usage
26 void findControls() {
27     dk_Weight = findViewById(R.id.edt_Weight);
28     dk_Height = findViewById(R.id.edt_Height);
29     dk_bmi = findViewById(R.id.tvBMI);
30     dk_ketluan = findViewById(R.id.tvKetLuan);
31 }
32
33 1 usage
34 public void Tinh_BMI_click(View view) {
35     float weight = Float.parseFloat(dk_Weight.getText().toString());
36     float height = Float.parseFloat(dk_Height.getText().toString());
37     String result;
```

```
MainActivity.java x
34
35 // Chuyển chiều cao thành m
36 height /= 100;
37
38 float bmi = weight / (height * height);
39
40 // Làm tròn số thập phân
41 DecimalFormat df = new DecimalFormat( pattern: "#.0");
42 df.format(bmi);
43
44 dk_bmi.setText(String.valueOf(bmi));
45
46 if (bmi < 18.5) {
47     result = "Gầy";
48 } else if (18.5 <= bmi && bmi <= 24.9) {
49     result = "Bình thường";
50 } else if (bmi == 25.0) {
51     result = "Thừa cân";
52 } else if (25 < bmi && bmi <= 29.9) {
53     result = "Tiền béo phì";
54 } else if (30 <= bmi && bmi <= 34.9) {
55     result = "Béo phì độ I";
56 } else {
57     result = "Béo phì độ II";
58 }
59
60 dk_ketluan.setText(result);
61 }
62 }
```