# P#2: Kotlin Calculator and BMI Calculator Challenge! 2347215 ARUNOTH SYMEN A

### **Program:**

#### Java Code:

```
package com.example.bmi;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       EditText editTextWeight = findViewById(R.id.weight);
      EditText editTextHeight = findViewById(R.id.height);
       Button button = findViewById(R.id.btnSubmit);
       TextView textView = findViewById(R.id.result);
      button.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
               float height =
Float.parseFloat(String.valueOf(editTextHeight.getText())) / 100;
               float weight =
Float.parseFloat(String.valueOf(editTextWeight.getText()));
               float bmi = weight / (height * height);
               textView.setText(String.valueOf(bmi));
               String bmiCondition;
               if (bmi < 18.5) {</pre>
                   bmiCondition = "Underweight";
               } else if (bmi >= 18.5 && bmi < 25) {
                   bmiCondition = "Normal weight";
               } else if (bmi >= 25 && bmi < 30) {</pre>
                   bmiCondition = "Overweight";
```

#### XML Code:

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout gravity="center"
  android:orientation="vertical"
   <ImageView</pre>
       android:id="@+id/imageView4"
       android:layout height="match parent"
       android:scaleType="fitXY" />
       android:layout width="391dp"
       android:layout height="711dp"
       android:layout alignParentTop="true"
       android:layout alignParentBottom="true"
       android:layout marginTop="0dp"
       android:layout marginBottom="0dp"
       android:orientation="vertical"
       android:padding="20dp"
       <com.google.android.material.textfield.TextInputLayout</pre>
           android:layout width="wrap content"
           android:layout height="wrap content">
```

```
<com.google.android.material.textfield.TextInputLayout</pre>
    android:layout width="wrap content"
    android:layout height="wrap content">
<TextView
    android:layout width="268dp"
    android:layout height="72dp"
    android:layout alignParentStart="true"
    android:layout alignParentTop="true"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginStart="62dp"
    android:layout marginTop="9dp"
    android:layout marginEnd="21dp"
    android:layout marginBottom="589dp"
    android:text="BMI CALCULATOR "
    android:textAlignment="center"
    android:textColor="@color/white"
    android:textSize="25sp"
    android:layout width="191dp"
    android:layout height="wrap content"
    android:layout alignParentStart="true"
    android:layout alignParentTop="true"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginStart="102dp"
    android:layout marginTop="64dp"
    android:layout marginEnd="58dp"
    android:layout marginBottom="526dp"
    android:textColorHint="@color/white" />
<com.google.android.material.textfield.TextInputEditText</pre>
    android:id="@+id/weight"
    android:layout width="190dp"
    android:layout height="wrap content"
    android:layout alignParentStart="true"
    android:layout alignParentTop="true"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginStart="101dp"
    android:layout marginTop="121dp"
```

```
android:layout marginEnd="60dp"
          android:layout marginBottom="467dp"
          android:layout width="201dp"
          android:layout height="69dp"
          android:layout alignParentStart="true"
          android:layout alignParentTop="true"
          android:layout alignParentEnd="true"
          android:layout alignParentBottom="true"
          android:layout marginStart="96dp"
          android:layout marginTop="202dp"
          android:layout marginEnd="55dp"
          android:layout marginBottom="400dp"
          android:text="Submit" />
  </RelativeLayout>
  <com.google.android.material.textfield.TextInputLayout</pre>
      android:layout width="wrap content"
  </com.google.android.material.textfield.TextInputLayout>
      android:layout width="wrap content"
      android:layout height="wrap content">
  <TextView
      android:layout width="236dp"
      android:layout alignParentStart="true"
      android:layout alignParentTop="true"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout gravity="center"
      android:layout marginStart="99dp"
      android:layout marginTop="287dp"
      android:layout marginEnd="56dp"
      android:layout marginBottom="352dp"
      android:textAlignment="center"
      android:textSize="25sp"
</RelativeLayout>
```

## **Output Screen:**

