java\tp1ex2.java

```
public class MainActivity extends AppCompatActivity {
 2
        EditText nameEditText:
 3
        Button addWeightButton:
 4
        TextView bmiTextView;
 5
        @Override
        protected void onCreate(Bundle savedInstanceState) {
 6
 7
            super.onCreate(savedInstanceState);
 8
            setContentView(R.layout.activity main);
9
            nameEditText = findViewById(R.id.nameEditText);
10
            addWeightButton = findViewById(R.id.addWeightButton);
11
            bmiTextView = findViewById(R.id.bmiTextView);
            addWeightButton.setOnClickListener(new View.OnClickListener() {
12
13
                @Override
                public void onClick(View v) {
14
15
                    String name = nameEditText.getText().toString().trim();
16
                    if(name.isEmpty()){
17
                        Toast.makeText(MainActivity.this, "Please enter your name",
    Toast.LENGTH SHORT).show();
18
                        return;
19
20
                    Intent intent = new Intent(MainActivity.this, WeightActivity.class);
21
                    intent.putExtra("name", name);
22
                    startActivity(intent);
23
24
            });
25
            // Display BMI if passed from HeightActivity
```

```
if (intent != null && intent.hasExtra("name") && intent.hasExtra("bmi")) {
27
                String name = intent.getStringExtra("name");
28
29
                double bmi = intent.getDoubleExtra("bmi", 0); // Default value of 0 if bmi not found
                Toast.makeText(MainActivity.this, "Test " + name + " "+bmi, Toast.LENGTH SHORT).show();
30
                bmiTextView.setText("Hello " + name + ", your BMI is: " + String.format("%.2f", bmi));
31
    // Format BMI to 2 decimal places
32
                bmiTextView.setVisibility(View.VISIBLE); // Change visibility to visible
33
34
35
36
37
    <?xml version="1.0" encoding="utf-8"?>
    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
38
    android:layout width="match parent" android:layout height="match parent"
    android:orientation="vertical" android:padding="16dp">
39
        <TextView android:id="@+id/textViewEnterName" android:layout width="wrap content"
    android:layout height="wrap content" android:text="Enter your name: " android:textSize="18sp" />
40
        <EditText android:id="@+id/nameEditText" android:layout width="match parent"
    android:layout height="wrap content" android:hint="Enter your name" android:textSize="16sp" />
        <Button android:id="@+id/addWeightButton" android:layout width="wrap content"</pre>
41
    android:layout height="wrap content" android:text="Add Weight" android:textSize="16sp" />
42
        <TextView android:id="@+id/bmiTextView" android:layout width="wrap content"
    android:layout height="wrap content" android:textSize="18sp" android:visibility="gone"
    android:text="BMI will be displayed here" />
43
    </LinearLayout>
44
45
46
    public class WeightActivity extends AppCompatActivity {
```

26

Intent intent = getIntent();

```
47
        TextView helloTextView:
        EditText weightEditText;
48
49
        @Override
50
        protected void onCreate(Bundle savedInstanceState) {
51
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity weight);
52
53
            helloTextView = findViewById(R.id.textViewHello);
54
            weightEditText = findViewById(R.id.weightEditText);
55
            Button addHeightButton = findViewById(R.id.addHeightButton);
56
            Intent intent = getIntent();
57
            final String name = intent.getStringExtra("name");
58
            helloTextView.setText("Hello " + name);
59
            addHeightButton.setOnClickListener(new View.OnClickListener() {
60
                @Override
                public void onClick(View v) {
61
62
                    String weight = weightEditText.getText().toString().trim();
63
                    if(weight.isEmpty()){
64
                      Toast.makeText(WeightActivity.this, "Please enter your weight",
    Toast.LENGTH SHORT).show();
65
                      return;
66
67
                    Intent intent = new Intent(WeightActivity.this, HeightActivity.class);
                    intent.putExtra("name", name);
68
69
                    intent.putExtra("weight", weight);
70
                    startActivity(intent);
71
            });
72
73
74
```

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
77
    android:layout width="match parent" android:layout height="match parent"
    android:orientation="vertical" android:padding="16dp">
      <TextView android:id="@+id/textViewHello" android:layout width="wrap content"
78
    android:layout_height="wrap_content" android:text="Hello name" android:textSize="18sp" />
      <TextView android:layout width="wrap content" android:layout height="wrap content"
79
    android:text="Enter your weight (Kg):" android:textSize="18sp" />
      <EditText android:id="@+id/weightEditText" android:layout width="match parent"
80
    android:layout_height="wrap_content" android:hint="Enter weight" android:textSize="16sp"
    android:inputType="numberDecimal" />
81
      <Button android:id="@+id/addHeightButton" android:layout width="wrap content"</pre>
    android:layout_height="wrap_content" android:text="Add Height" android:textSize="16sp" />
82
    </LinearLavout>
83
84
85
    public class HeightActivity extends AppCompatActivity {
86
        TextView helloTextView, weightTextView;
87
        EditText heightEditText;
        @Override
88
89
        protected void onCreate(Bundle savedInstanceState) {
90
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity height);
91
92
            helloTextView = findViewById(R.id.textViewHello);
93
            weightTextView = findViewById(R.id.textViewWeight);
94
            heightEditText = findViewById(R.id.heightEditText);
95
            Button showBMIButton = findViewById(R.id.showBMIButton);
96
            Intent intent = getIntent();
```

75 76

<?xml version="1.0" encoding="utf-8"?>

```
97
             final String name = intent.getStringExtra("name");
 98
             final String weight = intent.getStringExtra("weight");
             helloTextView.setText("Hello " + name);
 99
100
             weightTextView.setText("Your weight is: " + weight + " Kg");
             showBMIButton.setOnClickListener(new View.OnClickListener() {
101
102
                 @Override
                 public void onClick(View v) {
103
104
                     String height = heightEditText.getText().toString();
105
                     if(height.isEmpty()){
106
                       Toast.makeText(HeightActivity.this, "Please enter your height",
     Toast.LENGTH SHORT).show();
107
                       return:
108
109
                     double heightMeters = Double.parseDouble(height);
110
                     double weightKg = Double.parseDouble(weight);
111
                     double bmi = weightKg / (heightMeters * heightMeters);
112
                     Intent intent = new Intent(HeightActivity.this, MainActivity.class);
                     intent.putExtra("name", name);
113
                     intent.putExtra("bmi", bmi);
114
115
                     startActivity(intent);
116
117
             });
118
119
     }
120
121
     <?xml version="1.0" encoding="utf-8"?>
     <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
122
     android:layout width="match parent" android:layout height="match parent"
     android:orientation="vertical" android:padding="16dp">
```

```
<TextView android:id="@+id/textViewWeight" android:lavout width="wrap content"
124
     android:layout height="wrap content" android:text="Your weight is: Weight Kg"
     android:textSize="18sp" />
       <TextView android:layout width="wrap content" android:layout height="wrap content"
125
     android:text="Enter your height (m):" android:textSize="18sp" />
       <EditText android:id="@+id/heightEditText" android:layout width="match parent"
126
     android:layout_height="wrap_content" android:hint="Enter height" android:textSize="16sp"
     android:inputType="numberDecimal" />
127
       <Button android:id="@+id/showBMIButton" android:layout width="wrap content"</pre>
     android:layout height="wrap content" android:text="Show BMI" android:textSize="16sp" />
128
     </LinearLavout>
```

<TextView android:id="@+id/textViewHello" android:lavout width="wrap content"

android:layout height="wrap content" android:text="Hello name" android:textSize="18sp" />

123

129