

java\tp1ex2.java

```
1 public class MainActivity extends AppCompatActivity {
2     EditText nameEditText;
3     Button addWeightButton;
4     TextView bmiTextView;
5     @Override
6     protected void onCreate(Bundle savedInstanceState) {
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);
12        addWeightButton.setOnClickListener(new View.OnClickListener() {
13            @Override
14            public void onClick(View v) {
15                String name = nameEditText.getText().toString().trim();
16                if(name.isEmpty()){
17                    Toast.makeText(MainActivity.this, "Please enter your name",
18                        Toast.LENGTH_SHORT).show();
19                    return;
20                }
21                Intent intent = new Intent(MainActivity.this, WeightActivity.class);
22                intent.putExtra("name", name);
23                startActivity(intent);
24            }
25        });
26        // Display BMI if passed from HeightActivity
27    }
28 }
```

```
Intent intent = getIntent();
```

```
if (intent != null && intent.hasExtra("name") && intent.hasExtra("bmi")) {
```

```
    String name = intent.getStringExtra("name");
```

```
    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();
```

```
    bmiTextView.setText("Hello " + name + ", your BMI is: " + String.format("%.2f", bmi));
```

```
// Format BMI to 2 decimal places
```

```
    bmiTextView.setVisibility(View.VISIBLE); // Change visibility to visible
```

```
}
```

```
}
```

```
}
```

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

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent" android:layout_height="match_parent"
```

```
    android:orientation="vertical" android:padding="16dp">
```

```
    <TextView android:id="@+id/textViewEnterName" android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:text="Enter your name:" android:textSize="18sp" />
```

```
    <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"
    android:layout_height="wrap_content" android:text="Add Weight" android:textSize="16sp" />
```

```
    <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" />
```

```
</LinearLayout>
```

```
public class WeightActivity extends AppCompatActivity {
```

```

47     TextView helloTextView;
48     EditText weightEditText;
49     @Override
50     protected void onCreate(Bundle savedInstanceState) {
51         super.onCreate(savedInstanceState);
52         setContentView(R.layout.activity_weight);
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
61             public void onClick(View v) {
62                 String weight = weightEditText.getText().toString().trim();
63                 if(weight.isEmpty()){
64                     Toast.makeText(WeightActivity.this, "Please enter your weight",
65 Toast.LENGTH_SHORT).show();
66                     return;
67                 }
68                 Intent intent = new Intent(WeightActivity.this, HeightActivity.class);
69                 intent.putExtra("name", name);
70                 intent.putExtra("weight", weight);
71                 startActivity(intent);
72             }
73         });
74     }

```

```

75
76 <?xml version="1.0" encoding="utf-8"?>
77 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:orientation="vertical" android:padding="16dp">
78     <TextView android:id="@+id/textViewHello" android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:text="Hello name" android:textSize="18sp" />
79     <TextView android:layout_width="wrap_content" android:layout_height="wrap_content"
    android:text="Enter your weight (Kg):" android:textSize="18sp" />
80     <EditText android:id="@+id/weightEditText" android:layout_width="match_parent"
    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"
    android:layout_height="wrap_content" android:text="Add Height" android:textSize="16sp" />
82 </LinearLayout>
83
84
85 public class HeightActivity extends AppCompatActivity {
86     TextView helloTextView, weightTextView;
87     EditText heightEditText;
88     @Override
89     protected void onCreate(Bundle savedInstanceState) {
90         super.onCreate(savedInstanceState);
91         setContentView(R.layout.activity_height);
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();

```

```

97     final String name = intent.getStringExtra("name");
98     final String weight = intent.getStringExtra("weight");
99     helloTextView.setText("Hello " + name);
100    weightTextView.setText("Your weight is: " + weight + " Kg");
101    showBMIButton.setOnClickListener(new View.OnClickListener() {
102        @Override
103        public void onClick(View v) {
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);
113            intent.putExtra("name", name);
114            intent.putExtra("bmi", bmi);
115            startActivity(intent);
116        }
117    });
118 }
119 }
120
121 <?xml version="1.0" encoding="utf-8"?>
122 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:orientation="vertical" android:padding="16dp">

```

```
123     <TextView android:id="@+id/textViewHello" android:layout_width="wrap_content"  
android:layout_height="wrap_content" android:text="Hello name" android:textSize="18sp" />  
124     <TextView android:id="@+id/textViewWeight" android:layout_width="wrap_content"  
android:layout_height="wrap_content" android:text="Your weight is: Weight Kg"  
android:textSize="18sp" />  
125     <TextView android:layout_width="wrap_content" android:layout_height="wrap_content"  
android:text="Enter your height (m):" android:textSize="18sp" />  
126     <EditText android:id="@+id/heightEditText" android:layout_width="match_parent"  
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"  
android:layout_height="wrap_content" android:text="Show BMI" android:textSize="16sp" />  
128 </LinearLayout>  
129
```