

***FIT2081
Mobile Application
Development***

***Week 4- W/S Quiz
(Malaysia)***

Question 1 (5 Marks)

Suppose you have two applications, A and B. App A is responsible for broadcasting a value representing a mark to App B, as shown below.

Application A

```
1 public class MainActivity extends AppCompatActivity {
2
3     @Override
4     protected void onCreate(Bundle savedInstanceState) {
5         super.onCreate(savedInstanceState);
6         setContentView(R.layout.activity_main);
7     }
8     public void onSendBroadcastClick(View view){
9         Intent intent=new Intent();
10        intent.setAction("FIT2081-S1-23-W4-Q1");
11        intent.putExtra("total_mark",5);
12        sendBroadcast(intent);
13    }
14 }
```

Application B

```
1 public class MainActivity extends AppCompatActivity {
2     @Override
3     protected void onCreate(Bundle savedInstanceState) {
4         super.onCreate(savedInstanceState);
5         setContentView(R.layout.activity_main);
6         // your code here
7     }
8 }
9
10 class Week4BroadcastReceiver {
11     // your code here
12 }
13
14 }
```

The class 'Week4BroadcastReceiver' is the broadcast receiver responsible for receiving the broadcast of App A and showing it in a Toast.

Your task is to complete the implementation of App B (see lines 6 and 11)

Question 2 (5 Marks)

Suppose you have an activity with three UI elements (2 text views and one edit text), as shown below. You decide to update all three UI elements to have a uniform style that inherits from 'TextAppearance.AppCompat' parent style:

- text colour (#00FF00)
- text size (20sp)
- text style: bold

Your task is to implement and apply the new style to the code below. In other words, your answer should contain the code of the new style and the updated code of the three UI elements.

```
<TextView
    android:id="@+id/mark_id"
    android:layout_width="158dp"
    android:layout_height="27dp"
    android:textColor="#E91E63"
    android:textSize="24sp"
    android:text="TextView 1"
/>

<TextView
    android:id="@+id/textView"
    android:layout_width="183dp"
    android:layout_height="40dp"
    android:layout_marginStart="80dp"
    android:layout_marginTop="28dp"
    android:textColor="#E91E63"
    android:textSize="24sp"
    android:text="TextView 2"
/>

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="210dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="64dp"
    android:layout_marginTop="40dp"
    android:textColor="#E91E63"
    android:textSize="24sp"
    android:text="EditText 1"
/>
```