



Lahore Garrison University

Data Transmission in Activities

using Java (Android Studio)

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Mobile Application Development

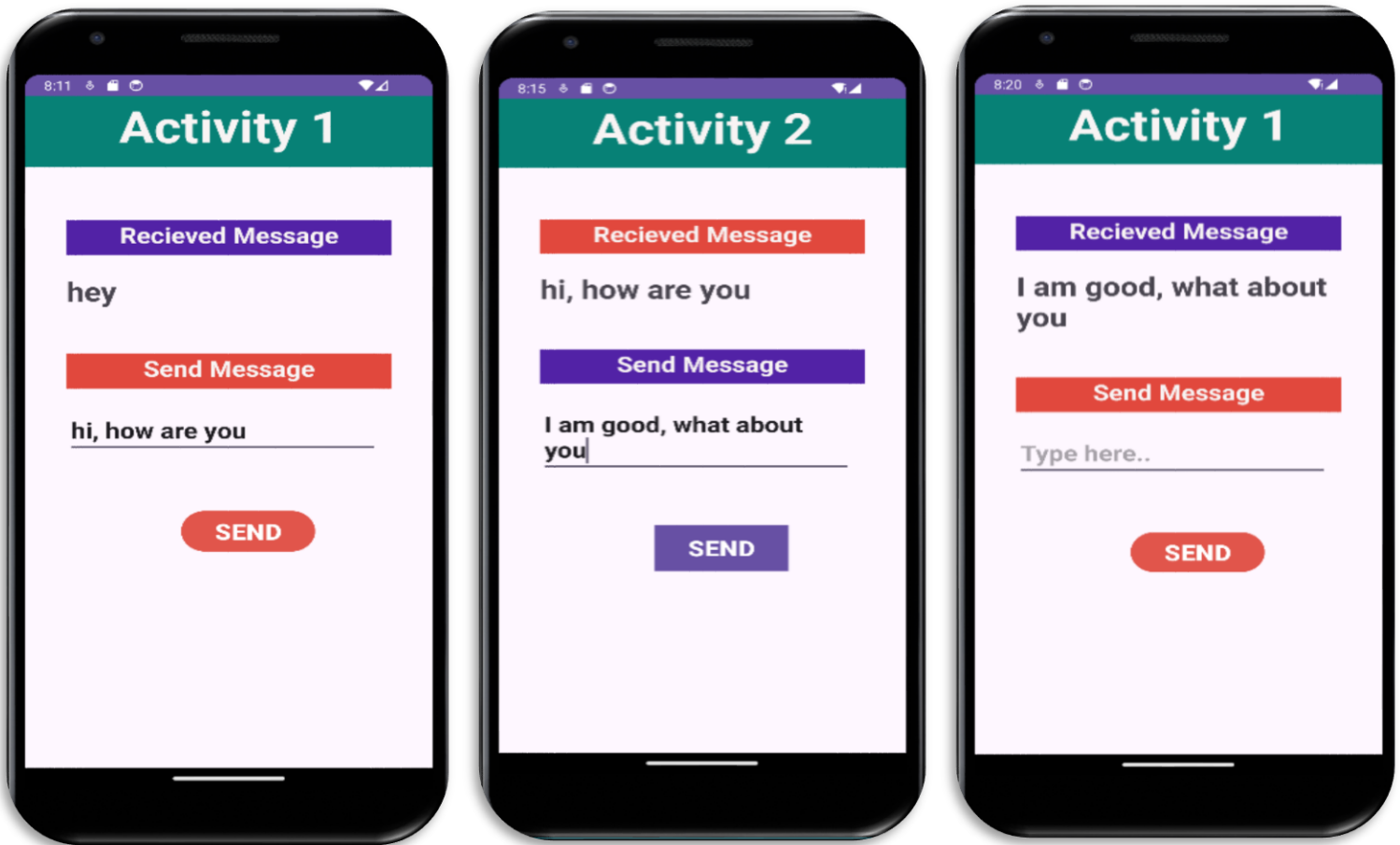
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Activity Layouts



(MainActivity.java)

```
1 package com.example.datatransfer;
2 import android.content.Intent;
3 import android.os.Bundle;
4 import android.view.View;
5 import android.widget.Button;
6 import android.widget.EditText;
7 import android.widget.TextView;
8 import androidx.activity.EdgeToEdge;
9 import androidx.appcompat.app.AppCompatActivity;
10 import androidx.core.graphics.Insets;
11 import androidx.core.view.ViewCompat;
12 import androidx.core.view.WindowInsetsCompat;
13
14 public class MainActivity extends AppCompatActivity {
15     // define the variable
16     Button send_button;
17     EditText send_text;
18     TextView showMsg_activity1;
19     @Override
20     protected void onCreate(Bundle savedInstanceState)
21     {
22         super.onCreate(savedInstanceState);
23         setContentView(R.layout.activity_main);
24
25         send_button =
26         findViewById(R.id.send_button_id_activity1);
27         send_text =
28         findViewById(R.id.send_text_id_activity1);
29         showMsg_activity1 =
30         findViewById(R.id.show_msg_activity1);
31
32
33         // create the get Intent object
34         Intent showMsg_intent_activity1 = getIntent();
```

```

35 // receive the value by getStringExtra() method and
36 // key must be same which is send by first activity
37 String received_msg_from_activity2 =
38 showMsg_intent_activity1.getStringExtra("message_key
39 _activity2");
40 // display the string into textView
41
42 showMsg_activity1.setText(received_msg_from_activity
43 2);
44
45
46 // add the OnClickListener in sender button after
47 clicked this button following Instruction will run
48 send_button.setOnClickListener(new
49 View.OnClickListener() {
50     public void onClick(View v) {
51         // get the value which input by user in EditText
52 and convert it to string
53         String message =

```

```

54 send_text.getText().toString();
55         // Create the Intent object of this class
56 Context() to Second_activity class
57         Intent sendMsg_intent_activity1 = new
58 Intent(MainActivity.this,Activity2.class);
59         // now by putExtra method put the value in
60 key, value pair key is
61         // message_key by this key we will receive the
62 value, and put the string
63
64 sendMsg_intent_activity1.putExtra("message_key_activ
65 ity1", message);
66         startActivity(sendMsg_intent_activity1);
67     }
68 });
69
70 }
71
72 }

```

(Activity2.java)

```

1 package com.example.datatransfer;
2 import android.content.Intent;
3 import android.os.Bundle;
4 import android.view.View;
5 import android.widget.Button;
6 import android.widget.EditText;
7 import android.widget.TextView;
8 import androidx.activity.EdgeToEdge;
9 import androidx.appcompat.app.AppCompatActivity;
10 import androidx.core.graphics.Insets;
11 import androidx.core.view.ViewCompat;
12 import androidx.core.view.WindowInsetsCompat;
13 public class Activity2 extends AppCompatActivity {
14     Button send_button_activity2;
15     EditText send_text_activity2;
16     TextView showMsg;
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {

```

```

19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_2);
21         send_button_activity2 =
22 findViewById(R.id.send_button_id_activity2);
23         send_text_activity2 =
24 findViewById(R.id.send_text_id_activity2);
25         showMsg =
26 findViewById(R.id.show_msg_activity2);
27
28         // create the get Intent object
29         Intent showMsg_intent_activity2 = getIntent();
30         // receive the value by getStringExtra() method and
31         // key must be same which is send by first activity
32         String received_msg_from_activity1 =
33 showMsg_intent_activity2.getStringExtra("message_key
34 _activity1");
35         // display the string into textView
36         showMsg.setText(received_msg_from_activity1);
37         // send data to activity 1
38         send_button_activity2.setOnClickListener(new

```

```
39 View.OnClickListener() {
40     public void onClick(View v) {
41         // get the value which input by user in EditText
42         and convert it to string
43         String Activity2_Message =
44         send_text_activity2.getText().toString();
45         // Create the Intent object of this class
46         Context() to Second_activity class
47         Intent sendMsg_intent_activity2 = new
48         Intent(Activity2.this,MainActivity.class);
49         // now by putExtra method put the value in
50         key, value pair key is
51         // message_key by this key we will receive the
52         value, and put the string
53
54         sendMsg_intent_activity2.putExtra("message_key_activ
55         ity2", Activity2_Message);
56         startActivity(sendMsg_intent_activity2);
57     }
58 };
59 }
```