

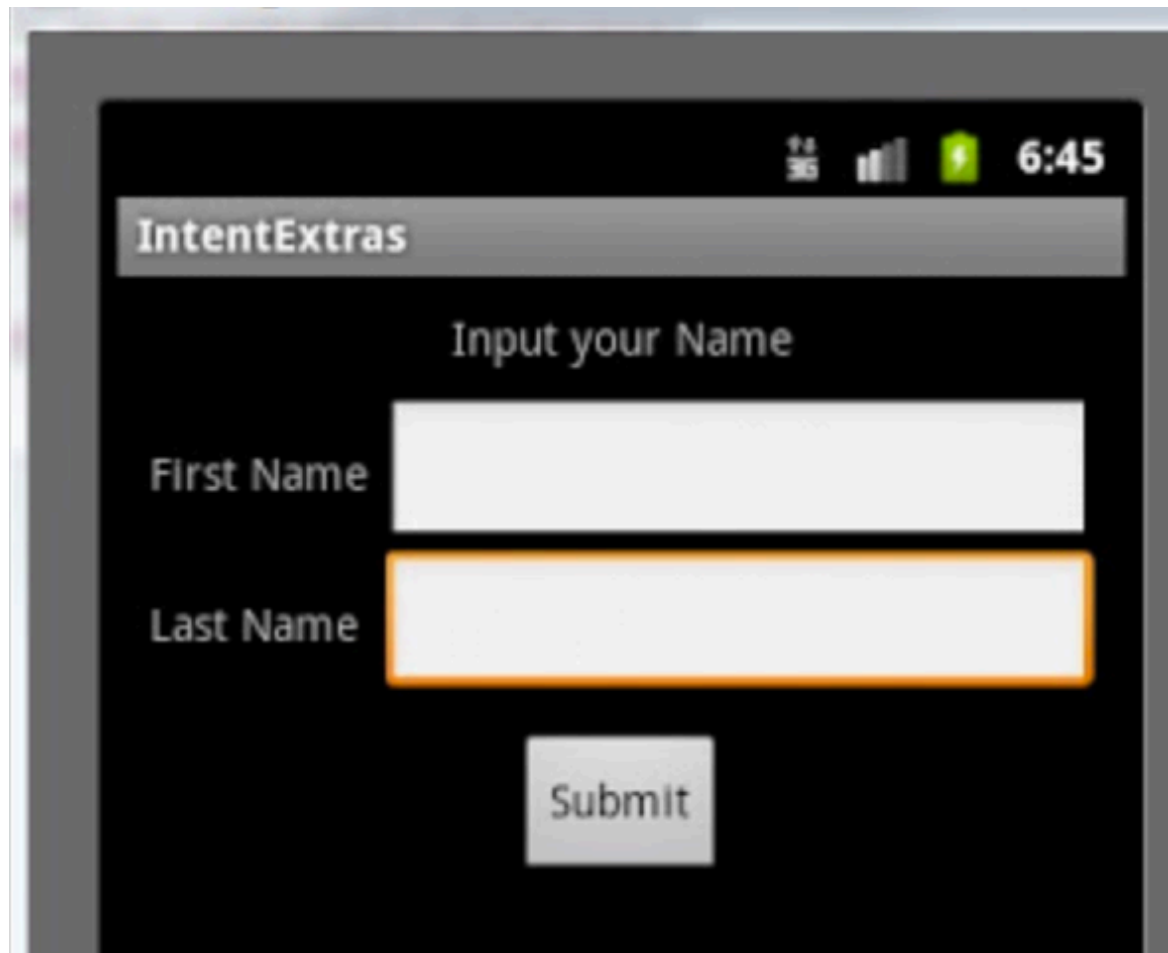
Intent. Activity Data Transfer.

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1. Activities: Send Data 1

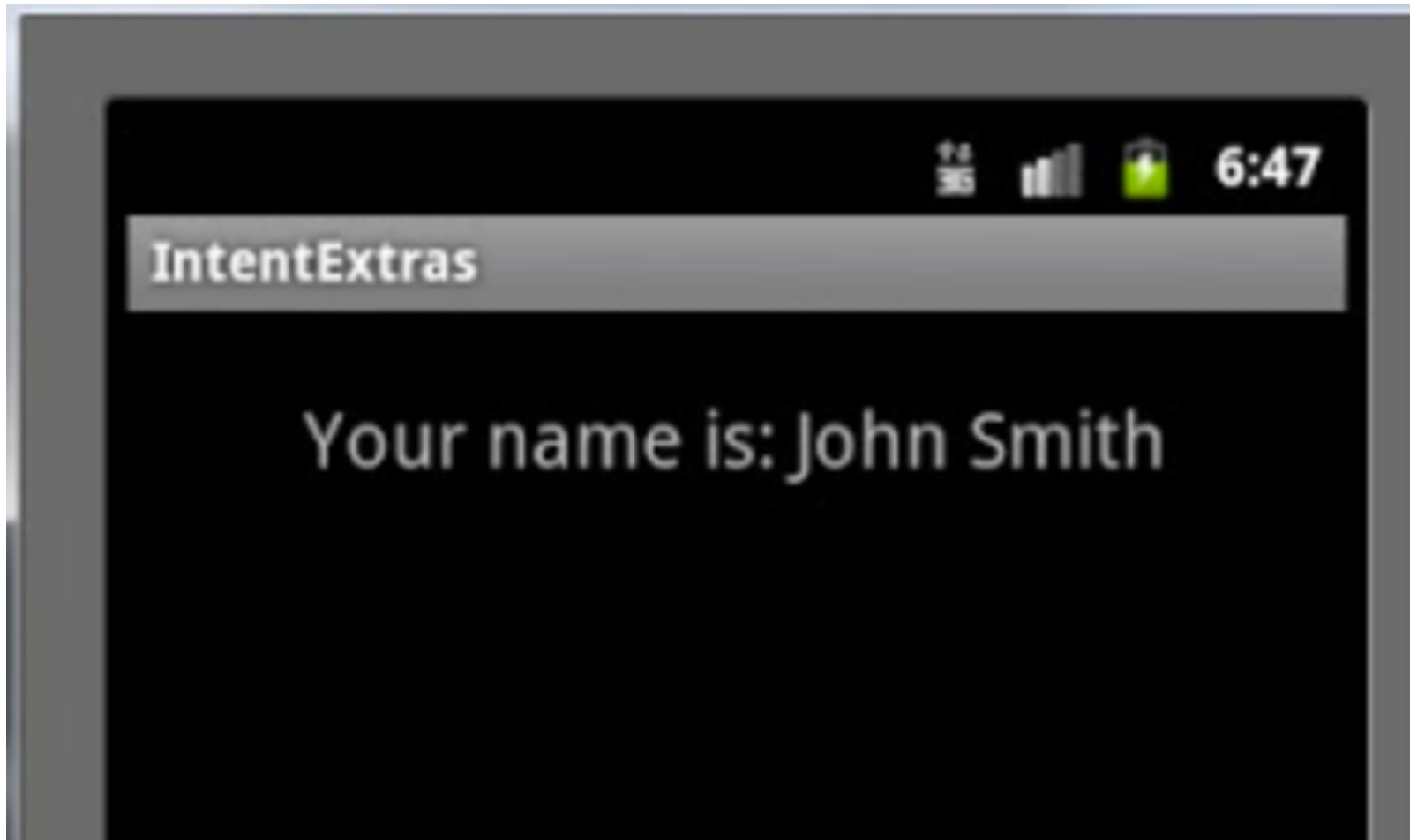
<http://startandroid.ru/en/lessons/complete-list/241-lesson-28-extras-passing-data-using-intent.html>

Project name: P0281_IntentExtras



The screenshot shows an Android application interface. At the top, the status bar displays the time 6:45, signal strength, and battery level. Below the status bar, the application title "IntentExtras" is visible in a grey header. The main content area has a black background. It contains the text "Input your Name" in white. Below this, there are two white input fields. The first field is labeled "First Name" and the second field is labeled "Last Name". Both labels are in white text. The "Last Name" field has a yellow border. At the bottom of the form, there is a grey button with the text "Submit" in black.

1. Activities: Send Data 2



1. Activities: Send Data 3

```
public class MainActivity extends Activity implements OnClickListener {

    EditText etFName;
    EditText etLName;

    Button btnSubmit;

    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        etFName = (EditText) findViewById(R.id.etFName);
        etLName = (EditText) findViewById(R.id.etLName);

        btnSubmit = (Button) findViewById(R.id.btnSubmit);
        btnSubmit.setOnClickListener(this);
    }
}
```

1. Activities: Send Data 4

```
@Override
public void onClick(View v) {
    Intent intent = new Intent(this, ViewActivity.class);
    intent.putExtra("fname", etFName.getText().toString());
    intent.putExtra("lname", etLName.getText().toString());
    startActivity(intent);
}
}
```

1. Activities: Send Data 5

```
public class ViewActivity extends Activity {

    TextView tvView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.view);

        tvView = (TextView) findViewById(R.id.tvView);

        Intent intent = getIntent();

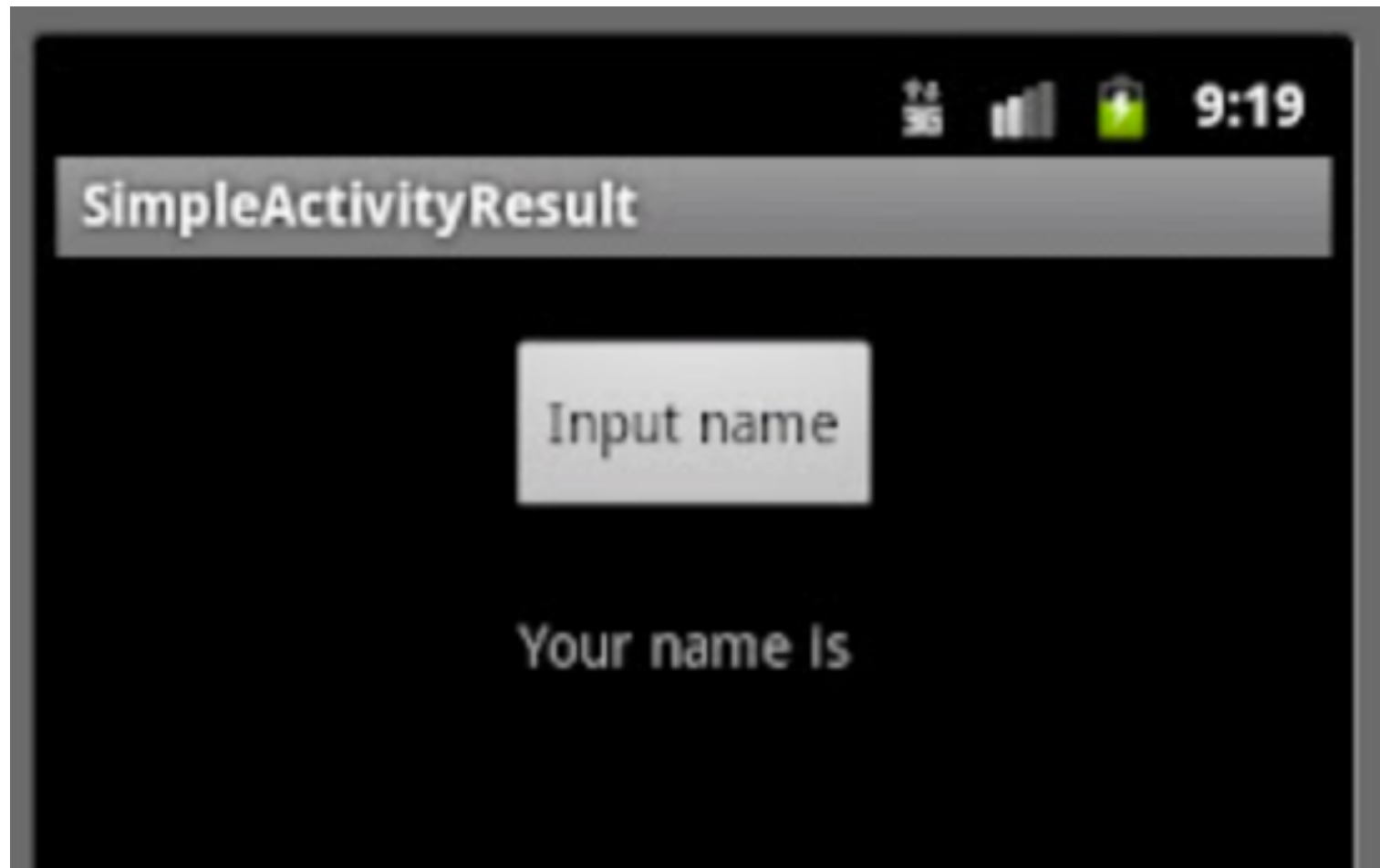
        String fName = intent.getStringExtra("fname");
        String lName = intent.getStringExtra("lname");

        tvView.setText("Your name is: " + fName + " " + lName);
    }
}
```

2. Activities: Send&Receive Data 1

<http://startandroid.ru/en/lessons/complete-list/250-lesson-29-invoking-activity-and-getting-a-result-startactivityforresult-method.html>

Project name: P0291_SimpleActivityResult



2. Activities: Send&Receive Data 2



2. Activities: Send&Receive Data 3



2. Activities: Send&Receive Data 4

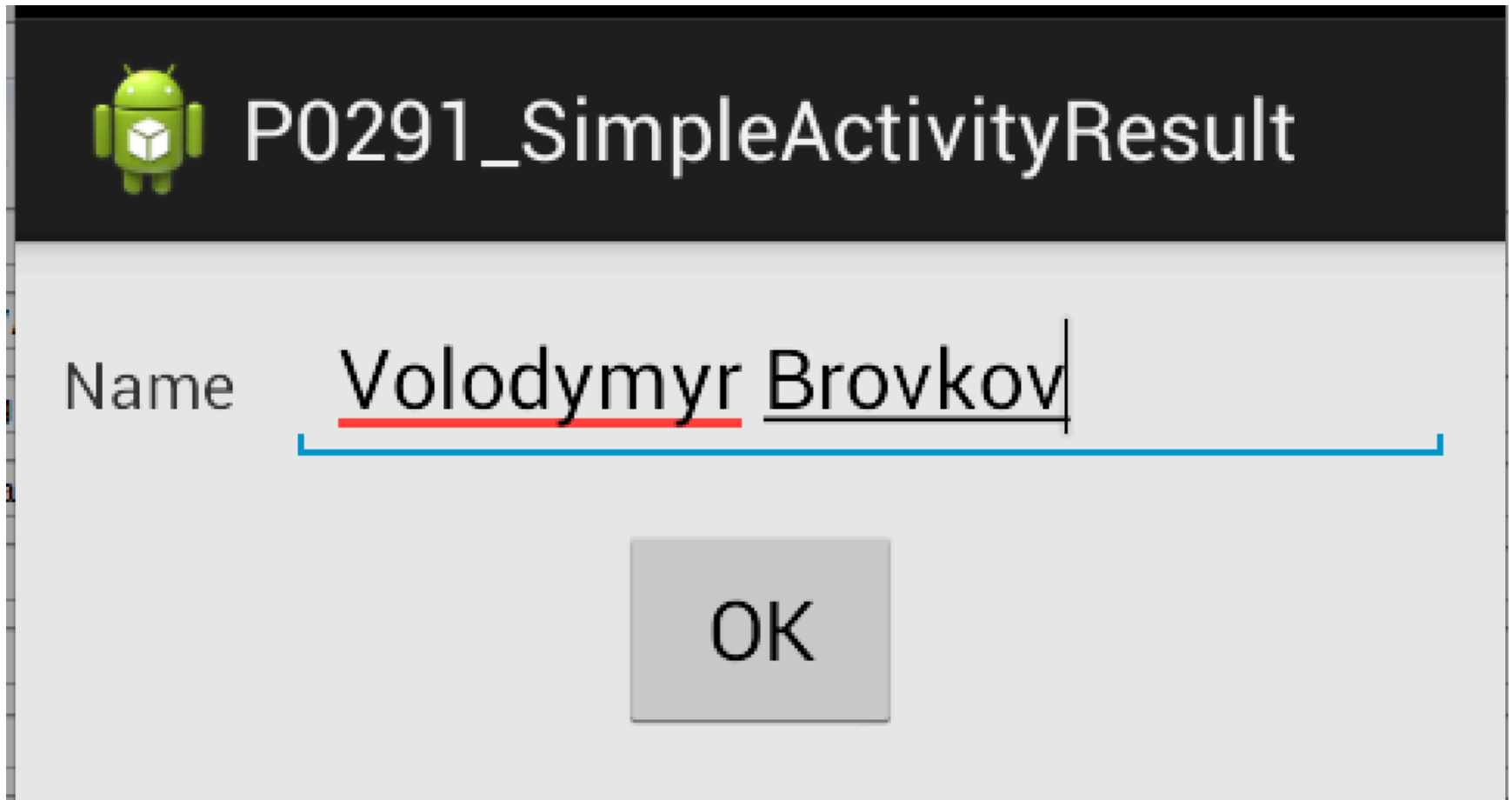
```
1 package com.example.p0291_simpleactivityresult;
2+ import android.app.Activity;
9 public class MainActivity extends Activity implements OnClickListener {
10     TextView tvName;
11     Button btnName;
12     /** Called when the activity is first created. */
13- @Override
14     public void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.main);
17         tvName = (TextView) findViewById(R.id.tvName);
18         btnName = (Button) findViewById(R.id.btnName);
19         btnName.setOnClickListener(this);
20     }
21- @Override
22     public void onClick(View v) {
23         Intent intent = new Intent(this, NameActivity.class);
24         startActivityForResult(intent, 1);
25     }
26- @Override
27     protected void onActivityResult(int requestCode,
28                                     int resultCode, Intent data) {
29         if (data == null) {return;}
30         String name = data.getStringExtra("name");
31         tvName.setText("Your name is " + name);
32     }
33 }
```

2. Activities: Send&Receive Data 5

```
main.xml  name.xml  *NameActivity.java  P0291_SimpleActivity

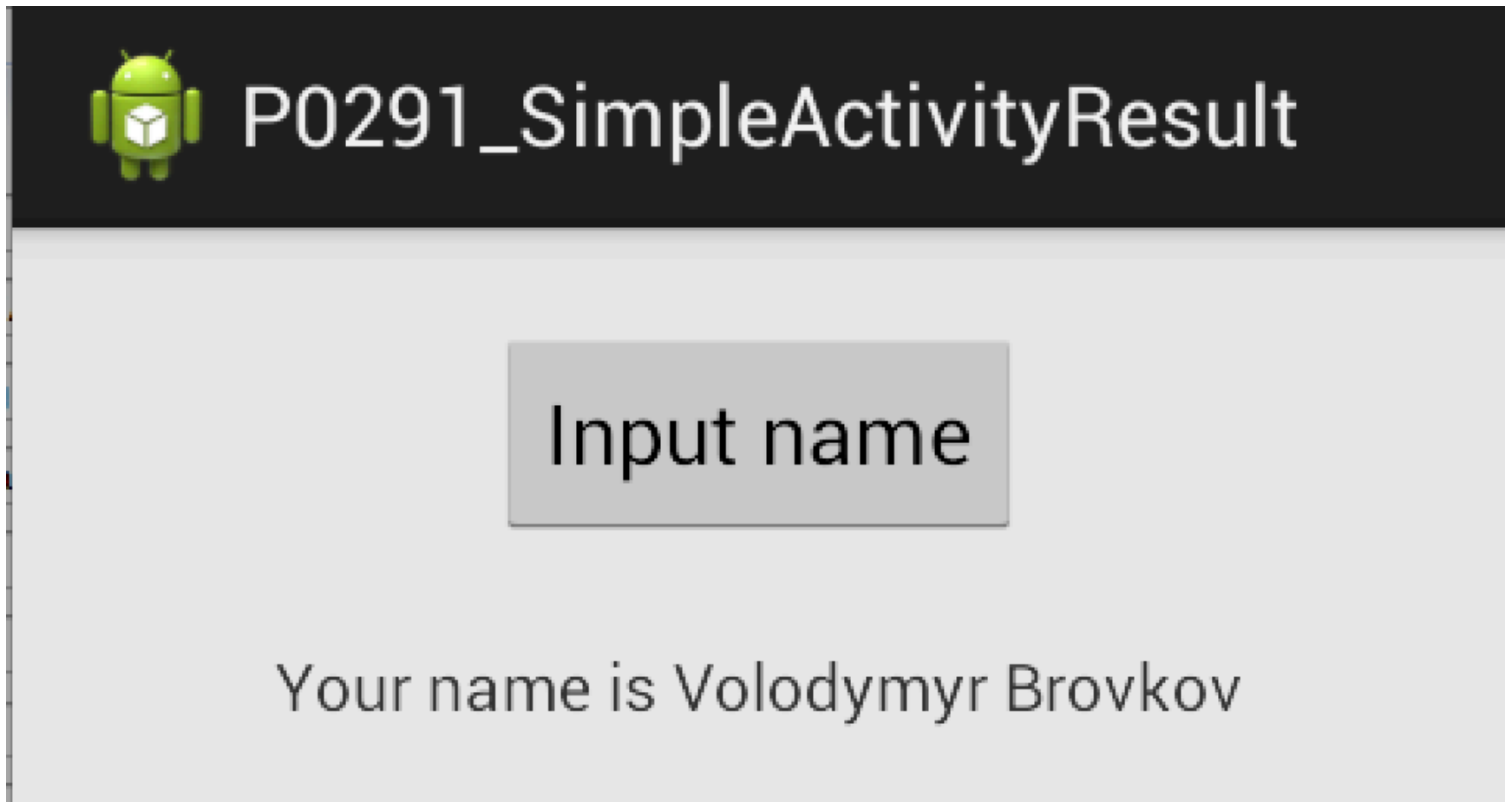
1  package com.example.p0291_simpleactivityresult;
2  import android.app.Activity;
9  public class NameActivity extends Activity implements OnClickListener {
10     EditText etName;
11     Button btnOK;
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         // TODO Auto-generated method stub
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.name);
17         etName = (EditText) findViewById(R.id.etName);
18         btnOK = (Button) findViewById(R.id.btnOK);
19         btnOK.setOnClickListener(this);
20     }
21     @Override
22     public void onClick(View v) {
23         Intent intent = new Intent();
24         intent.putExtra("name", etName.getText().toString());
25         setResult(RESULT_OK, intent);
26         finish();
27     }
28 }
```

2. Activities: Send&Receive Data 6



The screenshot shows an Android application window with a dark header bar. On the left of the header is a green Android robot icon, and to its right is the text 'P0291_SimpleActivityResult'. Below the header, the main content area is light gray. It contains a label 'Name' followed by a text input field. The input field contains the text 'Volodymyr Brovko', with 'Volodymyr' underlined in red and 'Brovko' underlined in black. A blue cursor line is at the end of the text. Below the input field is a gray rectangular button with the text 'OK' in black.

2. Activities: Send&Receive Data 7



2. Activities: Send&Receive Data 7

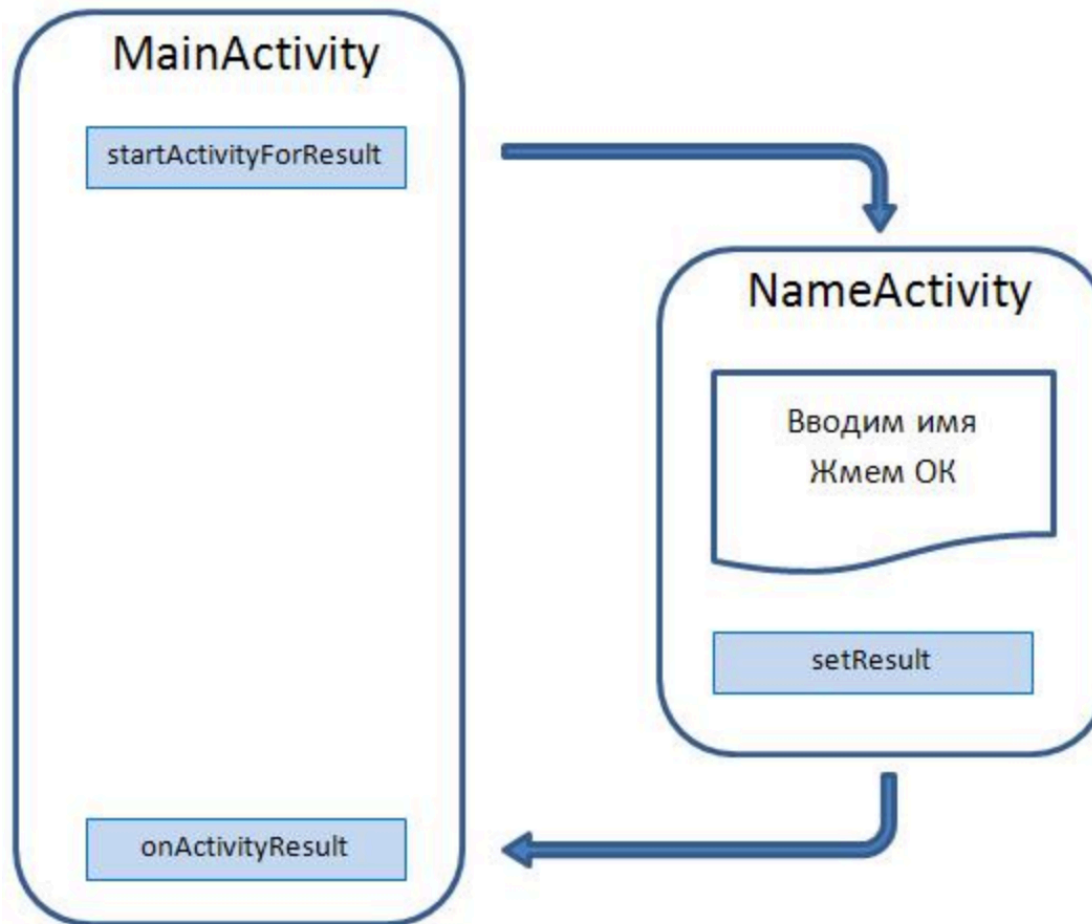
How it works:

```
@Override
public void onClick(View v) {
    Intent intent = new Intent(this, NameActivity.class);
    startActivityForResult(intent, 1);
}
```

```
@Override
public void onClick(View v) {
    Intent intent = new Intent();
    intent.putExtra("name", etName.getText().toString());
    setResult(RESULT_OK, intent);
    finish();
}
```

```
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    if (data == null) {return;}
    String name = data.getStringExtra("name");
    tvName.setText("Your name is " + name);
}
```

2. Activities: Send&Receive Data 8



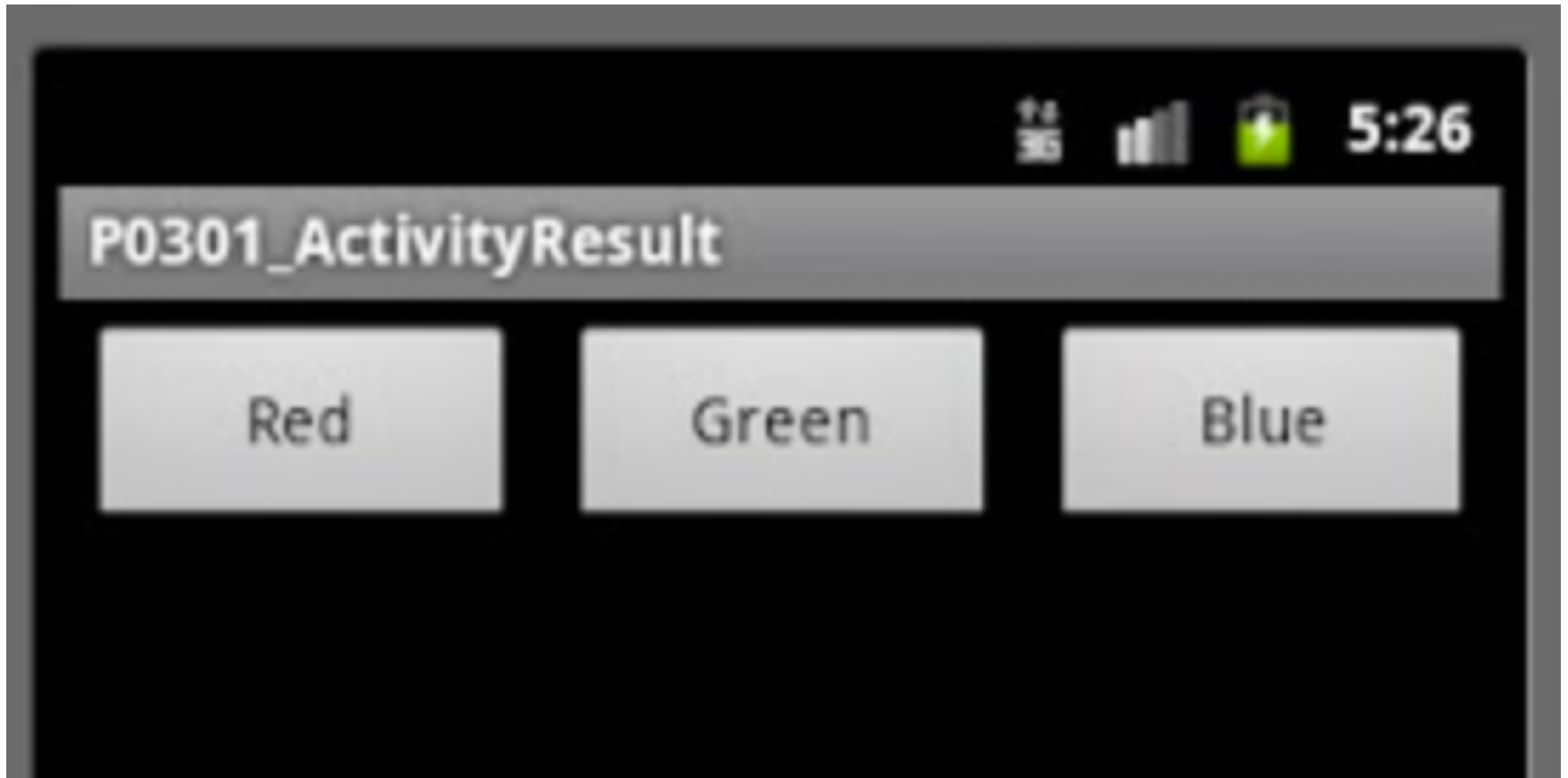
3. Two Child Screens 1

<http://startandroid.ru/ru/uroki/vse-uroki-spiskom/69-urok-30-podrobnее-pro-onactivityresult-zachem-nuzhny-requestcode-i-resultcode.html>

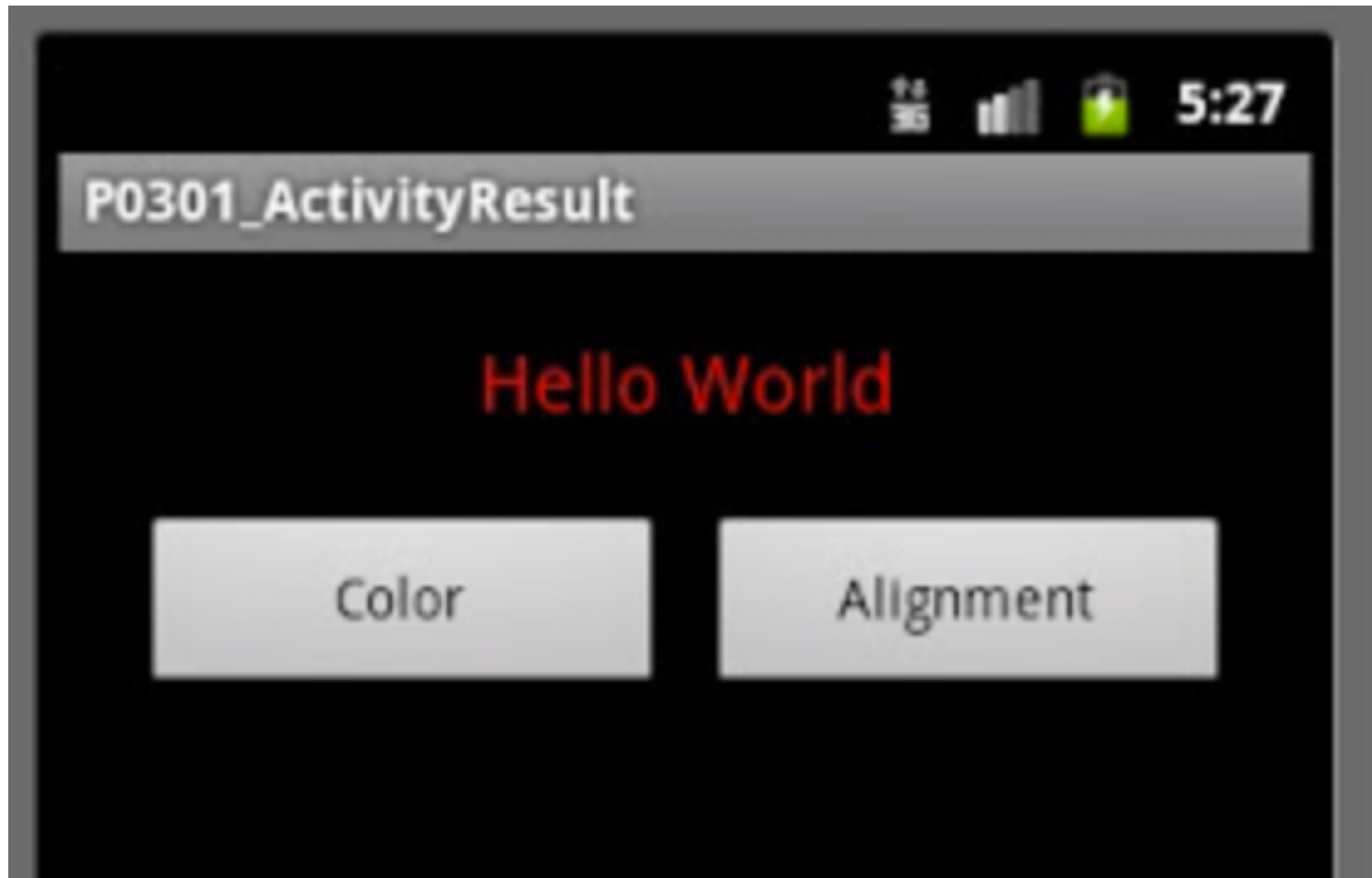
Project name: P0301_ActivityResult



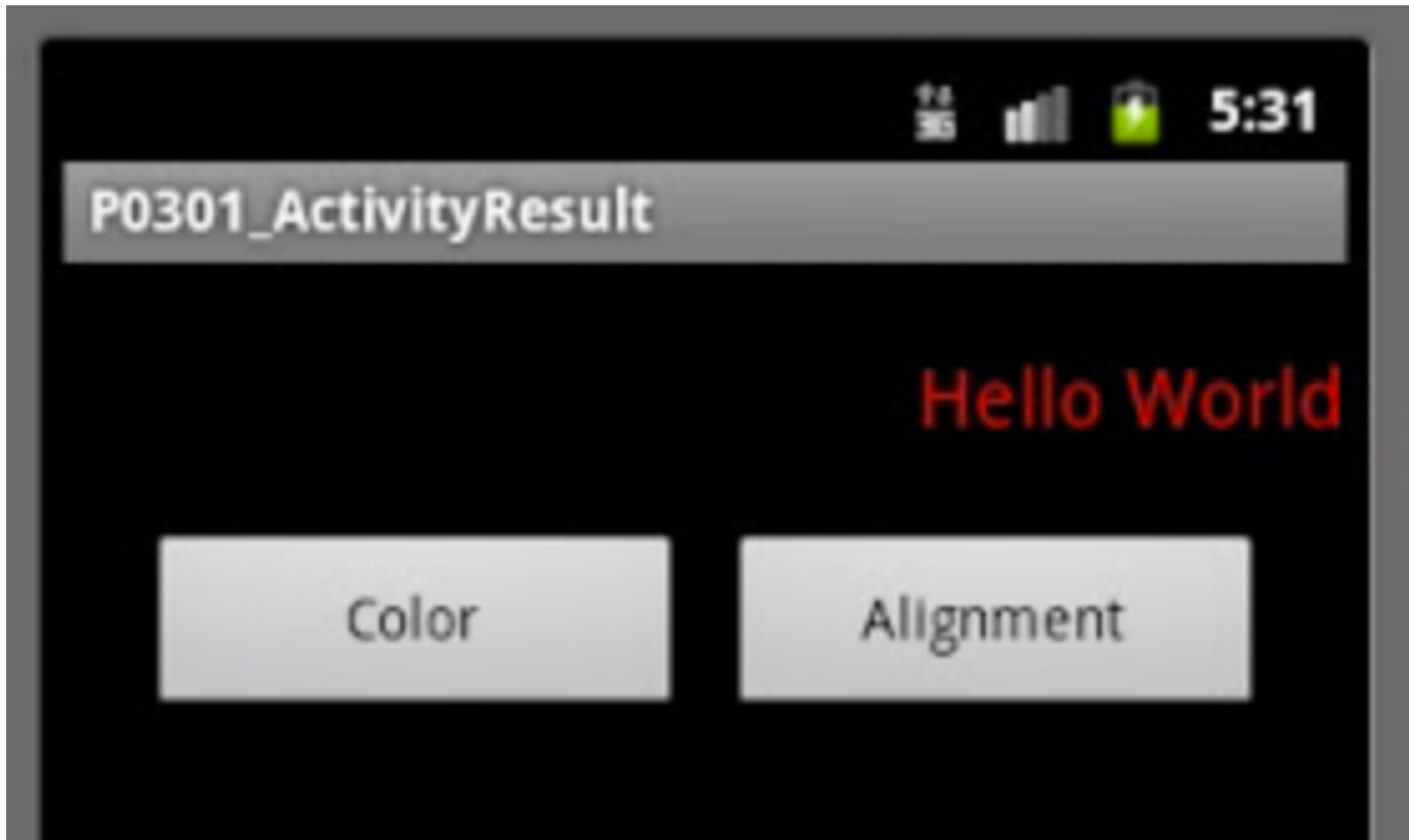
3. Two Child Screens 2



3. Two Child Screens 3



3. Two Child Screens 4



3. Two Child Screens 5

```
public class MainActivity extends Activity implements OnClickListener {

    TextView tvText;
    Button btnColor;
    Button btnAlign;

    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        tvText = (TextView) findViewById(R.id.tvText);

        btnColor = (Button) findViewById(R.id.btnColor);
        btnAlign = (Button) findViewById(R.id.btnAlign);

        btnColor.setOnClickListener(this);
        btnAlign.setOnClickListener(this);

    }

    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub

    }
}
```

3. Two Child Screens 6

```
public class ColorActivity extends Activity implements OnClickListener {

    Button btnRed;
    Button btnGreen;
    Button btnBlue;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.color);

        btnRed = (Button) findViewById(R.id.btnRed);
        btnGreen = (Button) findViewById(R.id.btnGreen);
        btnBlue = (Button) findViewById(R.id.btnBlue);

        btnRed.setOnClickListener(this);
        btnGreen.setOnClickListener(this);
        btnBlue.setOnClickListener(this);
    }
}
```

3. Two Child Screens 7

```
@Override
public void onClick(View v) {
    Intent intent = new Intent();
    switch (v.getId()) {
        case R.id.btnRed:
            intent.putExtra("color", Color.RED);
            break;
        case R.id.btnGreen:
            intent.putExtra("color", Color.GREEN);
            break;
        case R.id.btnBlue:
            intent.putExtra("color", Color.BLUE);
            break;
    }
    setResult(RESULT_OK, intent);
    finish();
}
```

3. Two Child Screens 8

```
public class AlignActivity extends Activity implements OnClickListener {

    Button btnLeft;
    Button btnCenter;
    Button btnRight;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.align);

        btnLeft = (Button) findViewById(R.id.btnLeft);
        btnCenter = (Button) findViewById(R.id.btnCenter);
        btnRight = (Button) findViewById(R.id.btnRight);

        btnLeft.setOnClickListener(this);
        btnCenter.setOnClickListener(this);
        btnRight.setOnClickListener(this);
    }
}
```

3. Two Child Screens 9

```
@Override
public void onClick(View v) {
    Intent intent = new Intent();
    switch (v.getId()) {
        case R.id.btnLeft:
            intent.putExtra("alignment", Gravity.LEFT);
            break;
        case R.id.btnCenter:
            intent.putExtra("alignment", Gravity.CENTER);
            break;
        case R.id.btnRight:
            intent.putExtra("alignment", Gravity.RIGHT);
            break;
    }
    setResult(RESULT_OK, intent);
    finish();
}
```


3. Two Child Screens 10

```
final int REQUEST_CODE_COLOR = 1;
final int REQUEST_CODE_ALIGN = 2;

@Override
public void onClick(View v) {
    Intent intent;
    switch (v.getId()) {
        case R.id.btnColor:
            intent = new Intent(this, ColorActivity.class);
            startActivityForResult(intent, REQUEST_CODE_COLOR);
            break;
        case R.id.btnAlign:
            intent = new Intent(this, AlignActivity.class);
            startActivityForResult(intent, REQUEST_CODE_ALIGN);
            break;
    }
}
```

3. Two Child Screens 11

```
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    // запишем в лог значения requestCode и resultCode
    Log.d("myLogs", "requestCode = " + requestCode + ", resultCode = " + resultCode);
    // если пришло OK
    if (resultCode == RESULT_OK) {
        switch (requestCode) {
            case REQUEST_CODE_COLOR:
                int color = data.getIntExtra("color", Color.WHITE);
                tvText.setTextColor(color);
                break;
            case REQUEST_CODE_ALIGN:
                int align = data.getIntExtra("alignment", Gravity.LEFT);
                tvText.setGravity(align);
                break;
        }
    }
    // если вернулось не OK
} else {
    Toast.makeText(this, "Wrong result", Toast.LENGTH_SHORT).show();
}
}
```