

# Android StartActivityResult Example

By the help of android `startActivityResult()` method, we can get result from another activity.

By the help of android `startActivityResult()` method, we can send information from one activity to another and vice-versa. The android **`startActivityResult`** method, requires a result from the second activity (activity to be invoked).

In such case, we need to override the **`onActivityResult`** method that is invoked automatically when second activity returns result.

## Method Signature

There are two variants of `startActivityResult()` method.

```
public void startActivityResult (Intent intent, int requestCode)
public void startActivityResult (Intent intent, int requestCode, Bundle options)
```

## Android StartActivityResult Example

Let's see the simple example of android `startActivityResult` method.

### activity\_main.xml

Drag one textview and one button from the palette, now the xml file will look like this.

*File: activity\_main.xml*

```
<RelativeLayout xmlns:androclass="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <TextView
```



```

    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/button1"
    android:layout_alignParentTop="true"
    android:layout_marginTop="48dp"
    android:text="Default Message" />

```

#### <Button

```

    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textView1"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="42dp"
    android:text="GetMessage" />

```

</RelativeLayout>

## second\_main.xml

This xml file is created automatically when you create another activity. **To create new activity Right click on the package inside the src -> New -> Other ->Android Activity.**

Now drag one editText, one textView and one button from the pallette, now the xml file will look like this:

File: second\_main.xml

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".SecondActivity" >

    <EditText

```



```
android:id="@+id/editText1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_marginTop="61dp"
android:layout_toRightOf="@+id/textView1"
android:ems="10" />
```

#### <TextView

```
android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBaseline="@+id/editText1"
android:layout_alignBottom="@+id/editText1"
android:layout_alignParentLeft="true"
android:text="Enter Message:" />
```

#### <Button

```
android:id="@+id/button1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/editText1"
android:layout_centerHorizontal="true"
android:layout_marginTop="34dp"
android:text="Submit" />
```

</RelativeLayout>

## Activity class

Now let's write the code that invokes another activity and get result from that activity.

*File: MainActivity.java*

```
package com.javatpoint.startactivityforresult;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
```



```
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends Activity {
    TextView textView1;
    Button button1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView1=(TextView)findViewById(R.id.textView1);
        button1=(Button)findViewById(R.id.button1);
        button1.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                Intent intent=new Intent(MainActivity.this,SecondActivity.class);
                startActivityForResult(intent, 2);// Activity is started with requestCode 2
            }
        });
    }
    // Call Back method to get the Message form other Activity
    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data)
    {
        super.onActivityResult(requestCode, resultCode, data);
        // check if the request code is same as what is passed here it is 2
        if(requestCode==2)
        {
            String message=data.getStringExtra("MESSAGE");
            textView1.setText(message);
        }
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.main, menu);
    }
}
```



```
        return true;
    }
}
```

## SecondActivity class

Let's write the code that displays the content of second activity layout file.

*File: SecondActivity.java*

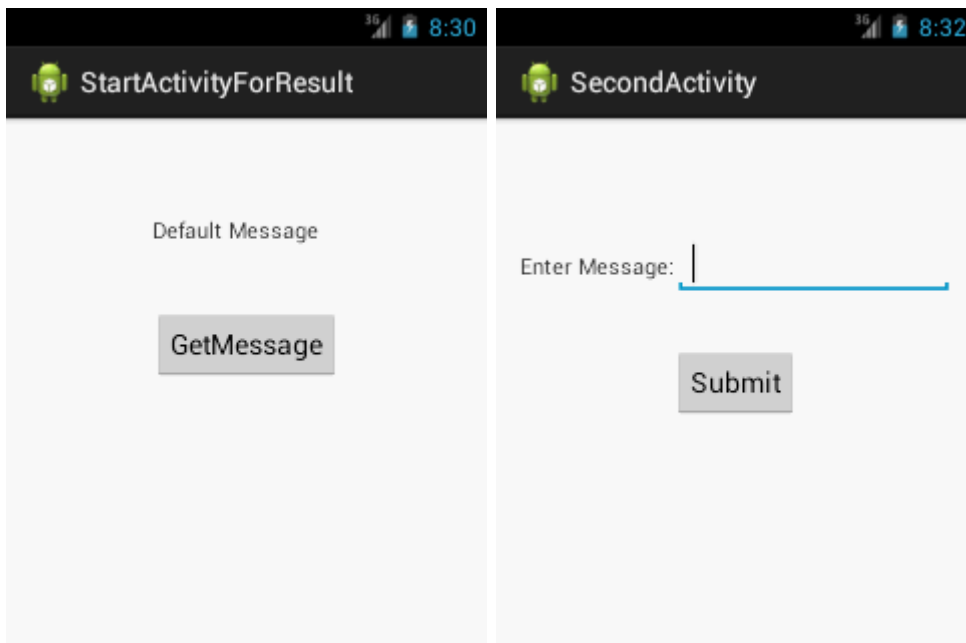
```
package com.javatpoint.startactivityforresult;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class SecondActivity extends Activity {
    EditText editText1;
    Button button1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        editText1=(EditText)findViewById(R.id.editText1);
        button1=(Button)findViewById(R.id.button1);
        button1.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                String message=editText1.getText().toString();
                Intent intent=new Intent();
                intent.putExtra("MESSAGE",message);
                setResult(2,intent);
                finish();//finishing activity
            }
        });
    }
}
```

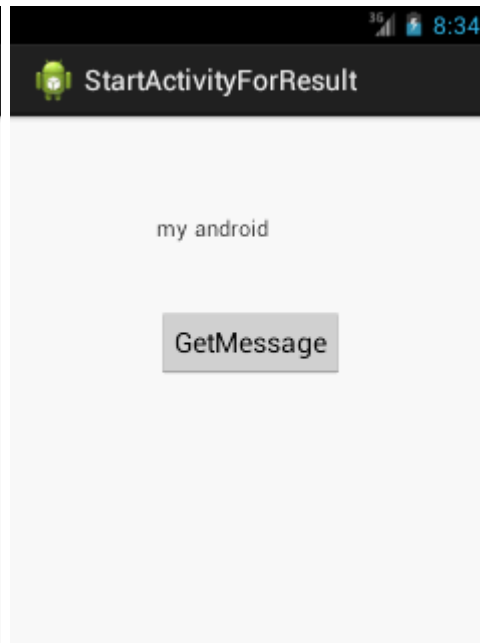
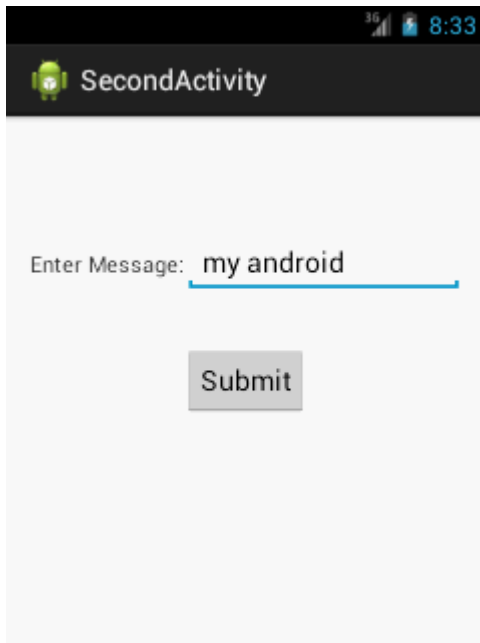


```
        }  
    });  
}  
@Override  
public boolean onCreateOptionsMenu(Menu menu) {  
    // Inflate the menu; this adds items to the action bar if it is present.  
    getMenuInflater().inflate(R.menu.second, menu);  
    return true;  
}  
}
```

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Output:



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