

Practical 7**Programs on Intents, Events, Listeners and Adapters**

The Android Intent Class, Using Events and Event Listeners

Create a new project and go to, **activity_main.xml**, and make the following additions to the code.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayoutxmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/txt1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="132dp"
        android:ems="10"
        android:hint="Enter Data"
        android:inputType="textPersonName" />

    <Button
        android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Send" />

</RelativeLayout>
```

Main_Activity.java

```

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText t1;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t1=(EditText)findViewById(R.id.txt1);
        b1=(Button)findViewById(R.id.btn1);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String data=t1.getText().toString();
                Intent intent=new Intent(getApplicationContext(),DataRecieve.class);
                intent.putExtra("data",data);
                startActivity(intent);
            }
        });
    }
}

```

Now create another activity **Activity_data_receive.xml**

Activity_data_receive.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".DataRecieve">

```

```
<TextView
android:id="@+id/tv1"
android:layout_width="100dp"
android:layout_height="50dp"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_marginStart="152dp"
android:layout_marginLeft="152dp"
android:layout_marginTop="161dp"
android:layout_marginEnd="132dp"
android:layout_marginRight="132dp" />
</RelativeLayout>
```

Data Receive.java

```
package com.org.datapass.datapass;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;

public class DataRecieveextends AppCompatActivity {
    TextViewt1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_data_recieve);
        t1=(TextView)findViewById(R.id.tv1);
        Intent intent=getIntent();
        String data=intent.getStringExtra("data");
        t1.setText(data);

    }
}
```