PRACTICAL 3

AIM: Develop an Android application that uses Layout Managers and event listeners.

CODE:

Activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<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"  
 tools:context=".MainActivity">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="100dp">  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="30dp"  
 android:text="Items Form"  
 android:textSize="25sp"  
 android:gravity="center"/>  
 </LinearLayout>  
  
 <GridLayout  
 android:id="@+id/gridLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="100dp"  
 android:layout\_marginBottom="200dp"  
 android:columnCount="2"  
 android:rowCount="3">  
 <TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:layout\_row="0"  
 android:layout\_column="0"  
 android:text="Name"  
 android:minHeight="60dp"  
 android:textSize="25sp"  
  
 android:gravity="center"/>  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:minHeight="60dp"  
 android:layout\_row="0"  
 android:layout\_column="1"  
 android:textSize="20sp"  
 android:hint="Product Name"  
 android:ems="10"/>  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:layout\_row="1"  
 android:layout\_column="0"  
 android:text="Description"  
 android:textSize="25sp"  
 android:gravity="center"/>  
  
 <EditText  
 android:id="@+id/editText2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:layout\_row="1"  
 android:layout\_column="1"  
 android:minHeight="60dp"  
 android:inputType="number"  
 android:textSize="20sp"  
 android:ems="10"  
 android:hint="Description"/>  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:layout\_row="2"  
 android:layout\_column="0"  
 android:text="Type"  
 android:textSize="25sp"  
 android:gravity="center"/>  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:minHeight="60dp"  
 android:layout\_row="2"  
 android:layout\_column="1"  
 android:spinnerMode="dropdown"/>  
  
 </GridLayout>  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerInParent="true"  
 android:layout\_marginBottom="150dp"  
 android:minHeight="60dp"  
 android:minWidth="250dp"  
 android:text="Submit"/>  
  
</RelativeLayout>

Acitivity\_second.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout 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"  
 tools:context="com.example.practical3.MainActivity"  
 android:orientation="vertical"  
 android:gravity="center">  
  
 <TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:text="Product"  
 android:textSize="30sp"/>  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:text="Description"  
 android:textSize="30sp"/>  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:text="Type"  
 android:textSize="30sp"/>  
  
</LinearLayout>

MainActivity.java

package com.example.practical3;  
import android.os.Bundle;  
import android.content.Intent;  
import android.view.View;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Spinner;  
  
public class MainActivity extends AppCompatActivity {EditText e1,e2;  
 Button bt;  
 Spinner s;String [] dept\_array={"Sports","Utilities","FMCG","Clothing"};  
 String name,desc,typeprduct;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);e1= (EditText) findViewById(R.id.*editText*);  
 e2= (EditText) findViewById(R.id.*editText2*);  
 bt= (Button) findViewById(R.id.*button*);  
 s= (Spinner) findViewById(R.id.*spinner*);  
 ArrayAdapter adapter= new

ArrayAdapter(MainActivity.this,android.R.layout.*simple\_spinner\_item*,dept\_ar

ray);  
 s.setAdapter(adapter);  
 bt.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {name=e1.getText().toString();  
 desc=e2.getText().toString();  
 typeprduct=s.getSelectedItem().toString();  
 Intent i = new Intent(MainActivity.this,SecondActivity.class);i.putExtra("name\_key", name);  
 i.putExtra("desc\_key",desc);  
 i.putExtra("type\_key", typeprduct);  
 startActivity(i);  
}});}}

SecondActivity.java

package com.example.practical3;  
import android.os.Bundle;  
import android.content.Intent;  
import android.widget.TextView;  
  
public class SecondActivity extends AppCompatActivity {  
 TextView t1,t2,t3;  
 String name,desc,typeprduct;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_second*);  
 t1= (TextView) findViewById(R.id.*textView1*);  
 t2= (TextView) findViewById(R.id.*textView2*);  
 t3= (TextView) findViewById(R.id.*textView3*);  
Intent i = getIntent();name=i.getStringExtra("name\_key");  
 desc=i.getStringExtra("desc\_key");  
 typeprduct=i.getStringExtra("type\_key");t1.setText(name);  
 t2.setText(desc);  
 t3.setText(typeprduct);  
 }  
}

OUTPUT:

