***slip2***

***Q1.Create an android application which reads a positive number from the user and***

***display its factorial value in another activity***

***xml file 1***

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout  
 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <EditText  
 android:id="@+id/edit\_text"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginEnd="50dp"  
 android:layout\_marginTop="300dp"  
 android:hint="Enter any number"/>  
  
 <Button  
 android:id="@+id/btn\_calculate"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="40dp"  
 android:layout\_marginEnd="38dp"  
 android:layout\_marginTop="30dp"  
 android:text="Calculate Factorial"/>  
  
  
  
  
</LinearLayout>

**Java file 1**

package com.example.slip2factorialapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 EditText editText;  
 Button btnCalculate;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 editText=findViewById(R.id.*edit\_text*);  
 btnCalculate=findViewById(R.id.*btn\_calculate*);  
 btnCalculate.setOnClickListener(new View.OnClickListener() {  
 Bundle bundle=new Bundle();  
 @Override  
 public void onClick(View view) {  
 int user,fact=1 , i;  
 user= Integer.*parseInt*(editText.getText().toString());  
  
  
  
 for(i=1;i<=user;i++)  
 {  
 fact=fact\*i;  
  
 }  
 bundle.putInt("key",fact);  
 Intent intent =new Intent(MainActivity.this,FactorialActivity.class);  
 intent.putExtras(bundle);  
  
 startActivity(intent);  
  
  
  
 }  
 });  
 }  
}

**xml file2**

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout  
 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"  
 android:orientation="vertical"  
 android:gravity="center"  
 tools:context=".FactorialActivity">  
 <TextView  
 android:id="@+id/text\_view\_result"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:text=""/>  
  
</LinearLayout>

**Java file2**

package com.example.slip2factorialapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class FactorialActivity extends AppCompatActivity {  
 TextView textView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_factorial*);  
 textView=(TextView) findViewById(R.id.*text\_view\_result*);  
 Intent intent= getIntent();  
 Bundle bundle= intent.getExtras();  
 int val =bundle.getInt("key");  
 String str =String.*valueOf*(val);  
  
  
 textView.setText(str);  
  
  
  
 }  
}