Factorial

MainActivity.java

package com.example.mrj.factorialcalculator;  
  
 import android.annotation.**SuppressLint**;  
 import android.content.Intent;  
 import android.support.v7.app.AppCompatActivity;  
 import android.os.Bundle;  
 import android.util.Log;  
 import android.view.View;  
 import android.widget.EditText;  
 import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
  
 **@SuppressLint**(**"SetTextI18n"**)  
 public void calculate(View view){  
 EditText number=(EditText)findViewById(R.id.*Number*);  
 EditText answer=(EditText)findViewById(R.id.*result*);  
 Integer n=Integer.*parseInt*(number.getText().toString());  
 Integer i,result=1;  
 for(i=1;i<=n;i++)  
 result=result\*i;  
 Log.*i*(**"Factorial is "**,**"result is "**+result);  
 answer.setText(**"Factorial of "**+n.toString()+**" is "**+result.toString());  
 Intent intent=new Intent(getApplicationContext(),Result.class);  
 intent.putExtra(**"result"**,result);  
 startActivity(intent);  
 }  
  
 **@Override** protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

Result.java

package com.example.mrj.factorialcalculator;  
  
import android.content.Intent;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import java.net.Inet4Address;  
  
public class Result extends AppCompatActivity {  
 EditText result;  
 **@Override** protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
 result= findViewById(R.id.*result*);  
 Intent i=getIntent();  
 int r=i.getIntExtra(**"result"**,0);  
 String answer=**"Your result is: "**+String.*valueOf*(r);  
 result.setText(answer);  
 Toast.*makeText*(this, **"Your result is: "**+String.*valueOf*(r), Toast.*LENGTH\_SHORT*).show();  
 }  
}

activity\_main.xml

<?xml version=**"1.0"** encoding=**"utf-8"**?>  
<android.support.constraint.ConstraintLayout 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=**"com.example.mrj.factorialcalculator.MainActivity"**>  
  
 <TextView  
 android:id=**"@+id/textView"** android:layout\_width=**"280dp"** android:layout\_height=**"45dp"** android:layout\_marginEnd=**"150dp"** android:layout\_marginStart=**"150dp"** android:layout\_marginTop=**"56dp"** android:inputType=**"none"** android:text=**"Enter Number"** android:textAlignment=**"center"** android:textColor=**"#000000"** android:textSize=**"30sp"** app:layout\_constraintEnd\_toEndOf=**"parent"** app:layout\_constraintStart\_toStartOf=**"parent"** app:layout\_constraintTop\_toTopOf=**"parent"** tools:text=**"Enter Number"** />  
  
 <EditText  
 android:id=**"@+id/Number"** android:layout\_width=**"95dp"** android:layout\_height=**"wrap\_content"** android:layout\_marginBottom=**"50dp"** android:layout\_marginEnd=**"100dp"** android:layout\_marginStart=**"100dp"** android:layout\_marginTop=**"150dp"** android:ems=**"10"** android:hint=**"Number"** android:inputType=**"textPersonName|numberDecimal"** android:shadowColor=**"#FFFF"** android:textAlignment=**"center"** android:textColorHint=**"@android:color/background\_light"** app:layout\_constraintBottom\_toTopOf=**"@+id/button"** app:layout\_constraintEnd\_toEndOf=**"parent"** app:layout\_constraintStart\_toStartOf=**"parent"** app:layout\_constraintTop\_toTopOf=**"parent"** />  
  
 <Button  
 android:id=**"@+id/button"** android:layout\_width=**"160dp"** android:layout\_height=**"40dp"** android:layout\_marginBottom=**"282dp"** android:layout\_marginEnd=**"100dp"** android:layout\_marginStart=**"100dp"** android:layout\_marginTop=**"16dp"** android:background=**"@color/colorPrimaryDark"** android:onClick=**"calculate"** android:text=**"Find Factorial"** android:textColor=**"#FFFFFF"** app:layout\_constraintBottom\_toBottomOf=**"parent"** app:layout\_constraintEnd\_toEndOf=**"parent"** app:layout\_constraintStart\_toStartOf=**"parent"** app:layout\_constraintTop\_toBottomOf=**"@+id/Number"** app:layout\_constraintVertical\_bias=**"1.0"** />  
  
 <EditText  
 android:id=**"@+id/result"** android:layout\_width=**"280dp"** android:layout\_height=**"40dp"** android:layout\_marginBottom=**"200dp"** android:layout\_marginEnd=**"50dp"** android:layout\_marginStart=**"50dp"** android:layout\_marginTop=**"36dp"** android:ems=**"10"** android:inputType=**"textPersonName"** app:layout\_constraintBottom\_toBottomOf=**"parent"** app:layout\_constraintEnd\_toEndOf=**"parent"** app:layout\_constraintStart\_toStartOf=**"parent"** app:layout\_constraintTop\_toBottomOf=**"@+id/button"** app:layout\_constraintVertical\_bias=**"0.6"** />  
  
</android.support.constraint.ConstraintLayout>

Activity\_result.xml

<?xml version=**"1.0"** encoding=**"utf-8"**?>  
<android.support.constraint.ConstraintLayout 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:layout\_gravity=**"center"** tools:context=**"com.example.mrj.factorialcalculator.Result"**>  
  
 <EditText  
 android:id=**"@+id/result"** android:layout\_width=**"wrap\_content"** android:layout\_height=**"wrap\_content"** android:layout\_marginBottom=**"217dp"** android:layout\_marginEnd=**"105dp"** android:layout\_marginStart=**"105dp"** android:layout\_marginTop=**"248dp"** android:ems=**"10"** android:inputType=**"textPersonName"** app:layout\_constraintBottom\_toBottomOf=**"parent"** app:layout\_constraintEnd\_toEndOf=**"parent"** app:layout\_constraintStart\_toStartOf=**"parent"** app:layout\_constraintTop\_toTopOf=**"parent"** />  
</android.support.constraint.ConstraintLayout>