**Practical Related Question**

1. **List different methods used in Intent**

|  |  |
| --- | --- |
| Methods | Description |
| Context.startActivity() | This is to launch a new activity or get an existing activity to be action. |
| Context.startService() | This is to start a new service or deliver instructions for an existence service. |
| Context.sendBroadcast() | This is to deliver the message to broadcast receivers. |

1. **Write an intent to display the phone dialer with the given number filled in.**

Intent intent = new Intent(Intent.ACTION\_DIAL);

    intent.setData(Uri.parse("tel:0123456789"));

startActivity(intent);

**Exercise**

**Xml:**

**MainActivity:**

<?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"  
 android:paddingTop="10dp">  
 >  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="10dp">  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/website\_text"  
 android:minWidth="200dp"  
 android:layout\_marginRight="10dp"  
 android:hint="Enter Website"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Navigate"  
 android:id="@+id/nav\_button"  
 />  
  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/open\_dialer"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Open Dialer"  
  
 />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="10dp">  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/fact\_no"  
 android:minWidth="200dp"  
 android:layout\_marginRight="10dp"  
 android:hint="Enter Number"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Factorial"  
 android:id="@+id/factorial"  
 />  
  
 </LinearLayout>  
  
</LinearLayout>

**Activity2:**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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=".Activity2">  
  
  
 <TextView  
 android:id="@+id/fact\_result"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="175dp"  
 android:layout\_marginTop="352dp"  
 android:layout\_marginEnd="178dp"  
 android:layout\_marginBottom="360dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Java:**

**MainActivity.java:**

package com.example.practical18;  
import androidx.appcompat.app.AppCompatActivity;  
import android.app.SearchManager;  
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 website\_text,fact\_no;  
 Button nav\_button,open\_dialer,factorial;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 website\_text=(EditText) findViewById(R.id.*website\_text*);  
 fact\_no=(EditText) findViewById(R.id.*fact\_no*);  
  
 nav\_button=(Button) findViewById(R.id.*nav\_button*);  
 factorial=(Button) findViewById(R.id.*factorial*);  
  
 open\_dialer=(Button) findViewById(R.id.*open\_dialer*);  
  
 nav\_button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String website= String.*valueOf*(website\_text.getText());  
 Intent viewSearch=new Intent(Intent.*ACTION\_WEB\_SEARCH*);  
 viewSearch.putExtra(SearchManager.*QUERY*,website);  
 startActivity(viewSearch);  
 }  
 });  
 open\_dialer.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent viewDialer=new Intent(Intent.*ACTION\_DIAL*);  
 startActivity(viewDialer);  
 }  
 });  
 factorial.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String num= String.*valueOf*(fact\_no.getText()+"");  
  
 Intent fact=new Intent(MainActivity.this,Activity2.class);  
 fact.putExtra("number",num);  
 startActivity(fact);  
 }  
 });  
 }  
}

**Activity2.java**

package com.example.practical18;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.TextView;  
  
public class Activity2 extends AppCompatActivity {  
 TextView fact\_result;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_2*);  
 fact\_result=(TextView) findViewById(R.id.*fact\_result*);  
 int number = Integer.*parseInt*(getIntent().getStringExtra("number")) ;  
 int i,fact=1;  
  
 for(i=1;i<=number;i++){  
 fact=fact\*i;  
 }  
 fact\_result.setText(Integer.*toString*(fact));  
  
}  
}