**Practical 18**

1. Write a Program to create an EditText and Button. When you enter “[www.google.com](http://www.google.com)” and press enter it should open google page.

Xml Code :

<?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"

tools:context=".MainActivity"

android:orientation="vertical">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="50dp"

android:hint="Enter Url"

android:paddingLeft="10dp"

android:layout\_marginLeft="30dp"

android:layout\_marginRight="30dp"

android:textSize="22dp"

android:layout\_marginTop="80dp"

android:background="@drawable/button\_bg"

android:id="@+id/url"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Click Me To Visit"

android:textSize="25dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:layout\_marginTop="30dp"

android:id="@+id/btn"/>

</LinearLayout>

Java Code :

package com.example.exp18;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button btn = (Button) findViewById(R.id.btn);

EditText url = (EditText) findViewById(R.id.url);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String urll = url.getText().toString();

Intent i1 = new Intent(Intent.ACTION\_VIEW, Uri.parse(urll));

startActivity(i1);

}

});

}

}

Output:

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application

Description automatically generated

1. Write a Program to create button start dialer. When you click on this button it should open phone dialer.

Xml Code :

<?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"

tools:context=".MainActivity2"

android:orientation="vertical">

<Button

android:layout\_width="wrap\_content"

android:layout\_height="60dp"

android:text="Start Dialer"

android:textSize="25dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:layout\_marginTop="80dp"

android:id="@+id/btn"/>

</LinearLayout>

Java Code :

package com.example.exp18;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

Button btn = (Button) findViewById(R.id.btn);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent i1 = new Intent(Intent.ACTION\_DIAL);

startActivity(i1);

}

});

}

}

Output:

Graphical user interface

Description automatically generated with low confidence A picture containing table

Description automatically generated

1. Program to create two screens. First screen will take one number input from user. After click on Factorial button, second screen will open and it should display factorial of the same number. Also specify which type of intent you will use in this case.

Main Xml Code :

<?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"

tools:context=".MainActivity"

android:orientation="vertical">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="50dp"

android:hint="Enter any number"

android:paddingLeft="10dp"

android:layout\_marginLeft="30dp"

android:layout\_marginRight="30dp"

android:textSize="22dp"

android:layout\_marginTop="80dp"

android:background="@drawable/button\_bg"

android:id="@+id/num"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Find Factorial"

android:textSize="25dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:layout\_marginTop="30dp"

android:id="@+id/btn"/>

</LinearLayout>

Factorial XML code:

<?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"

tools:context=".factorial"

android:orientation="vertical"

android:layout\_margin="50dp"

android:id="@+id/l1">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:id="@+id/txt"/>

</LinearLayout>

Main Java Code :

package com.example.exp18;

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 MainActivity3 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main3);

EditText e1 = (EditText) findViewById(R.id.num);

Button find\_factorial = (Button) findViewById(R.id.btn);

find\_factorial.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent i1 = new Intent(getApplicationContext(),factorial.class);

i1.putExtra("f",e1.getText().toString());

startActivity(i1);

}

});

}

}

Factorial Java Code:

package com.example.exp18;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.graphics.Color;

import android.os.Bundle;

import android.widget.LinearLayout;

import android.widget.TextView;

public class factorial extends AppCompatActivity {

String msg = "f";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_factorial);

Intent intent = getIntent();

String num = intent.getStringExtra(msg);

Integer n = Integer.parseInt(num);

Integer fact = 1;

for(int i=1;i<=n;i++){

fact = fact \* i;

}

TextView t1 = (TextView) findViewById(R.id.txt);

t1.setText("Factorial of "+n+" is "+fact);

t1.setTextColor(Color.BLACK);

t1.setTextSize(25);

}}

Output:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated