

## Practical 18

1. Write a Program to create an EditText and Button. When you enter "www.google.com" and press enter it should open google page.

### Xml Code :

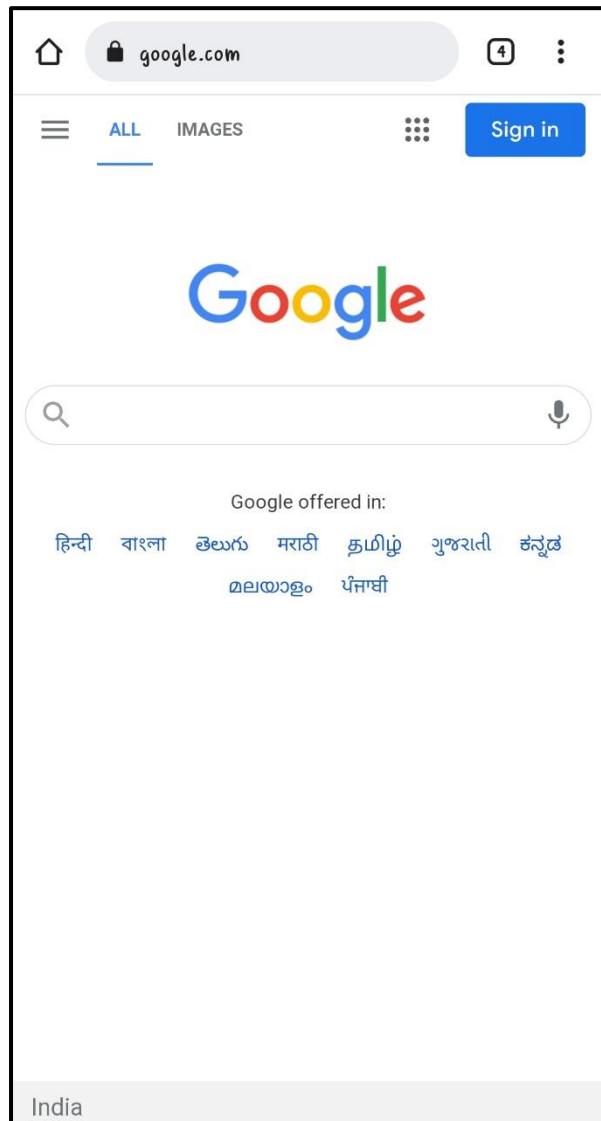
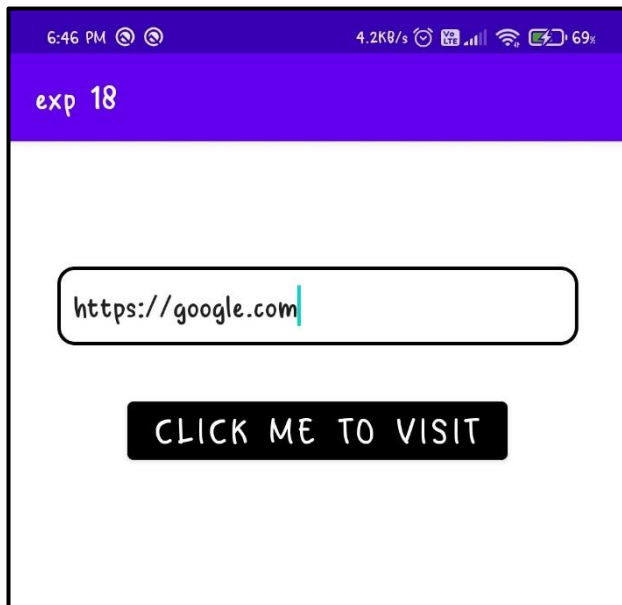
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    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 url1 = url.getText().toString();
            Intent i1 = new Intent(Intent.ACTION_VIEW, Uri.parse(url1));
            startActivity(i1);
        }
    });
}
```

Output:



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

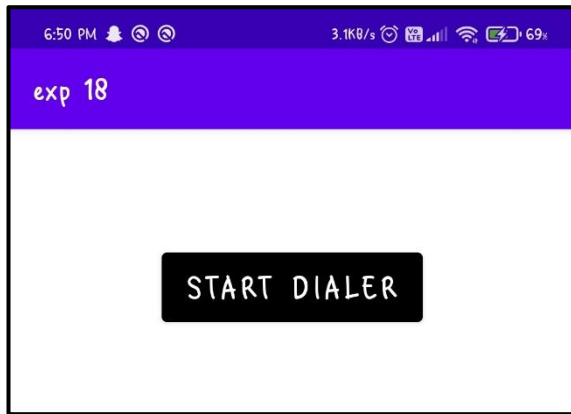
Xml Code :

```
<?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:



3. 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:**