

## Practical No 18

### X.1

- **Program**
- **XML File:**

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout
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" >

<EditText
android:id="@+id/txtURL"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginLeft="10dp"
android:layout_marginTop="20dp"
android:text="https://www.google.com/" />

<Button
android:id="@+id/btnGo"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@id/txtURL"
android:onClick="btnGoHandler"
android:text="Navigate"
android:layout_marginLeft="20dp"/>

<WebView
android:id="@+id/webView"
```

```
android:layout_width="fill_parent"
android:layout_height="wrap_content"
android:layout_below="@id/btnGo" />
</RelativeLayout>
```

- **JAVA File:**

```
package com.example.pr_18_1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.webkit.WebView;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    private WebView webView; // for displaying web contents
    private EditText txtURL;

    @Override

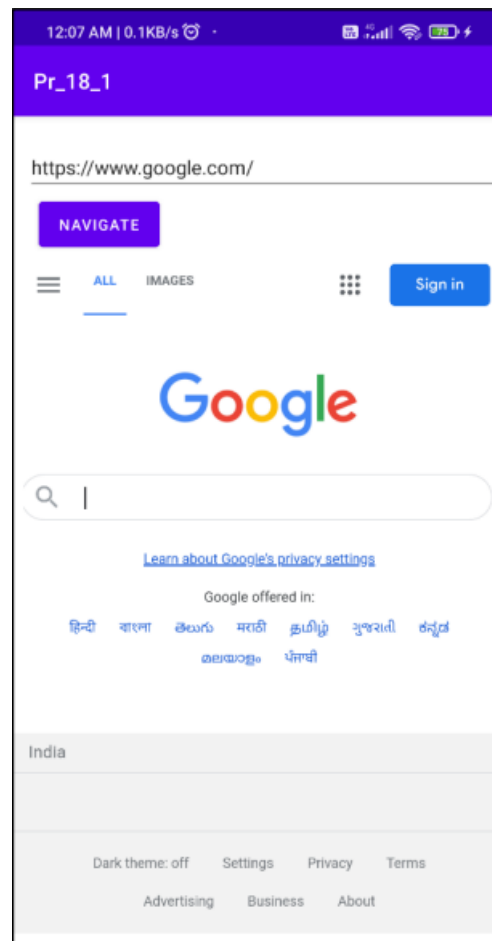
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        webView = (WebView) findViewById(R.id.webView);
        txtURL = (EditText) findViewById(R.id.txtURL);
    }

    public void btnGoHandler(View view) {

        // show the web page of the URL of the EditText
        webView.loadUrl(txtURL.getText().toString());
    }
}
```

- **Output:**



## X.2

- **Program**
- **XML File:**

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<RelativeLayout
```

```
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">
```

```
<EditText
```

```
android:id="@+id/e1"
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="122dp"
        android:layout_marginBottom="573dp"
        android:ems="10"
        android:hint=" enter number" />

        <Button
            android:id="@+id/t1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentEnd="true"
            android:layout_alignParentBottom="true"
            android:layout_marginEnd="151dp"
            android:layout_marginBottom="500dp"
            android:text="Start Dialer" />

    </RelativeLayout>

```

- **JAVA File:**

```

package com.example.pr_18_2;

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 {

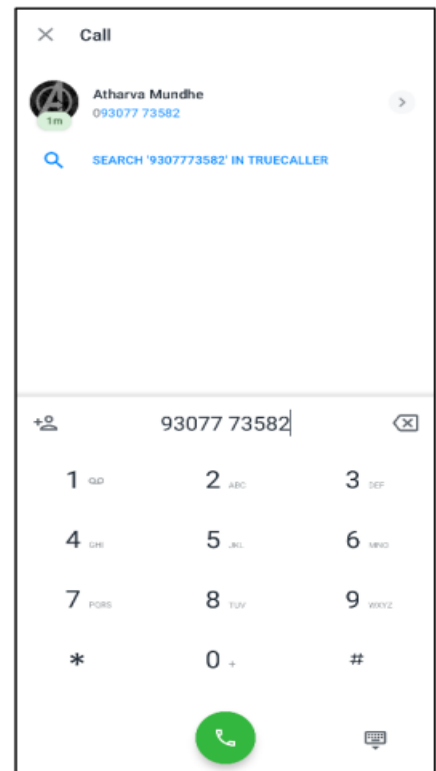
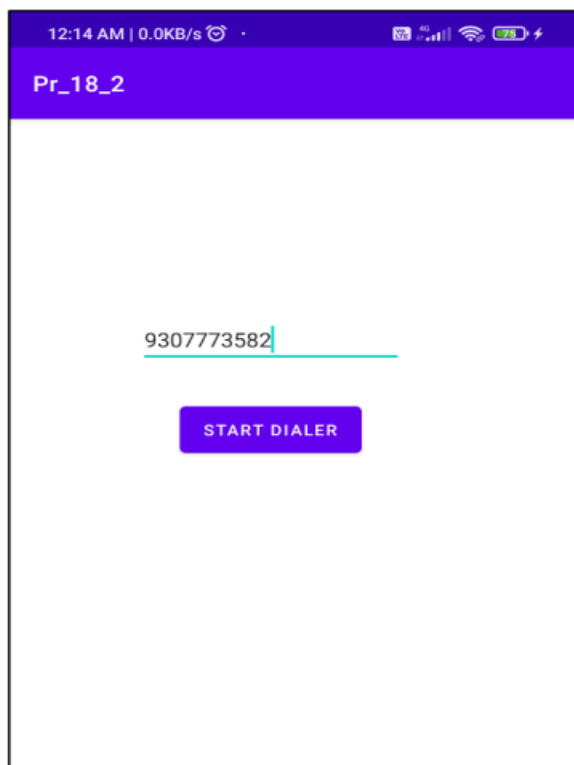
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    final EditText e1=(EditText)findViewById(R.id.e1);
    final Button b1=(Button)findViewById(R.id.t1);
    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String n = e1.getText().toString();
            Intent cinte =new Intent(Intent.ACTION_DIAL);
            cinte.setData(Uri.parse("tel:"+n));
            startActivity(cinte);
        }
    });
}

```

- **Output:**



### X.3

- **Program**
- **XML File:**

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout
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">

<EditText
android:id="@+id/num"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/cal"
android:layout_alignParentStart="true"
android:layout_marginStart="81dp"
android:layout_marginTop="256dp"
android:layout_marginBottom="41dp"
android:ems="10"
android:inputType="number"
android:minHeight="48dp"
android:text="Enter Number"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.542"
app:layout_constraintStart_toStartOf="parent"
```

```

app:layout_constraintTop_toTopOf="parent"

tools:ignore="TouchTargetSizeCheck,TouchTargetSizeCheck,TouchTarget
SizeChec
k,TouchTargetSizeCheck" />

<Button
    android:id="@+id/cal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_centerVertical="true"
    android:layout_marginStart="76dp"
    android:text="Calculate Factorial"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    tools:layout_editor_absoluteY="324dp" />

</RelativeLayout>

```

- **XML File 2:**

```

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout
    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">

```

```

<TextView
    android:id="@+id/tv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="37dp"
    android:layout_marginTop="299dp"
    android:text="The Factorial is: "
    android:textColor="#0A0707"
    android:textSize="24sp"
    android:textStyle="bold" />
</RelativeLayout>

```

- **JAVA File:**

```

package com.example.pr_18_3;
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 {
    Button cal;
    EditText num;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        cal=findViewById(R.id.cal);
        num=findViewById(R.id.num);
        Bundle bundle = new Bundle();

```



```

cal.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        switch (view.getId())
        {
            case R.id.cal:
                int val =
                Integer.parseInt(num.getText().toString());
                bundle.putInt("num",val);
                Intent intent = new Intent(MainActivity.this,
                Answer.class);
                intent.putExtras(bundle);
                startActivity(intent);
                break;
            }
        }
    });
}
}

```

- **JAVA File 2:**

```

package com.example.pr_18_3;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
public class Answer extends AppCompatActivity {
    TextView tv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_answer);
        Intent intent = getIntent();
        Bundle bundle = intent.getExtras();
    }
}

```

```
tv= (TextView) findViewById(R.id.tv);
int val = bundle.getInt("num");
int x = 1;
for(int i=1; i<val; i++)
{
x =(x*i);
}
String txt = Integer.toString(x);
tv.append(txt);
}}
```

- **Output:**

