Activity_main.xml:

```
<TextView
       android:layout width="match parent"
   <TextView
       android:layout width="match parent"
   <TextView
       app:srcCompat = "@drawable/img"
</LinearLavout>
```

Color:

<color name="purple">#800080</color>

String:

```
<string name="app_name">TYBScIT</string>
<string name="Heading">Advanced Mobile Programming</string>
<string name="Description">
    Android is a mobile operating system developed by Google.
    It is based on a modified version of the Linux
    kernel and other open source software, and is
    designed primarily for touch screen mobile devices
    such as smart phones and tablets
</string>
```

Themes:

```
<!-- Customize your theme here. -->

<item name="android:background">#FF0000</item>
<item name="android:textColor">#0000FF</item>
```

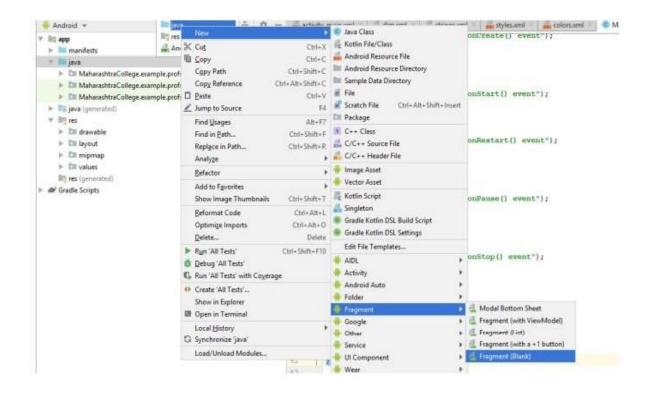
Images:

First right click in drawable and paste the image then add image in activity_main.xml

Practicle 3:

a)

```
import androidx.appcompat.app.AppCompatActivity;
   protected void onCreate(Bundle savedInstanceState) {
   public void onStop()
   public void onDestroy()
```



Give Fragement file name as : LifeCycleofFragment

and the state of t

```
import android.content.Context;
import android.net.Uri;
import android.os.Bundle;
import android.xfragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.JewGroup;
import android.view.ViewGroup;
import android.view.ViewGroup;
import android.util.Log;

public class LifeCycleofFragment extends Fragment {
    String tag = "Life Cycle of Fragment";
    private static final String ARG_PARAM1 = "param1";
    private static final String ARG_PARAM2 = "param2";

    private String mParam1;
    private String mParam2;
    private OnFragmentInteractionListener mListener;

public LifeCycleofFragment() {
        // Required empty public constructor
    }

    public static LifeCycleofFragment newInstance(String param1, String param2) {
        LifeCycleofFragment fragment = new LifeCycleofFragment();
        Bundle args = new Bundle();
        args.putString(ARG_PARAM1, param1);
        args.putString(ARG_PARAM2, param2);
        fragment.setArguments(args);
        return fragment;
    }

    @Override
```

```
public void onCreate(Bundle savedInstanceState) {
       mParam1 = getArguments().getString(ARG PARAM1);
       mParam2 = getArguments().getString(ARG PARAM2);
public void onButtonPressed(Uri uri) {
        throw new RuntimeException(context.toString()
public void onStop() {
public void onDestroy() {
   void onFragmentInteraction(Uri uri);
```

Practicle 4:

A) Linear layout

```
<EditText
<TextView
```

Themes.xml

```
<item name="android:background">#000000</item>
<item name="android:textColor">#FFFFAA</item>
```

B) Relative layout:

c) Table Layout:

Practicle 5

A) AppBar:

Theme.xml

```
The default line is

<style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">

Change to

<style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
```



File Name: toolbar (then upload following code)

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@color/white"
    android:elevation="4dp"
    >
</androidx.appcompat.widget.Toolbar>
```

Activity main.xml:

```
<?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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!" />
    <include
        android:id="@+id/toolbar"
        layout="@layout/toolbar"
        />
    </RelativeLayout>
```

MainActivity.java:

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import androidx.appcompat.widget.Toolbar;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toolbar tbar=findViewById(R.id.toolbar);
        setSupportActionBar(tbar);
    }
}
```

<Button

Main_activity:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="horizontal"
android:stretchColumns="1">
<LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical">
<EditText
android:id="@+id/et1"
android:layout_width="match_parent"
android:layout_height="70dp"
android:ems="10"
android:inputType="textPersonName"
android:text="Input1" />
<EditText
android:id="@+id/et2"
android:layout_width="match_parent"
android:layout_height="64dp"
android:ems="10"
android:inputType="textPersonName"
android:text="Input2" />
<Button
android:id="@+id/btnAdd"
android:layout_width="match_parent"
android:layout height="wrap content"
android:text="Addition" />
<Button
android:id="@+id/btnSub"
android:layout width="match parent"
android:layout_height="wrap_content"
android:text="Subtraction" />
<Button
android:id="@+id/btnMult"
android:layout width="match parent"
android:layout_height="wrap_content"
android:text="Multiplication" />
<Button
android:id="@+id/btnDiv"
android:layout_width="match_parent"
android:layout height="wrap content"
android:text="Division" />
```

```
android:id="@+id/btnClear"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Clear" />
<TextView
android:id="@+id/tv1"
android:layout_width="match_parent"
android:layout_height="63dp"
android:text="Output"
android:textColor="@android:color/background_dark"
android:textSize="18sp"
android:textStyle="bold"
app:fontFamily="casual" />
</LinearLayout>
```

Main.java:

```
package com.example.prac_5_calculator;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.*;
import static android.view.View.*;
public class MainActivity extends AppCompatActivity {
EditText t1,t2;
Button b1,b2,b3,b4,b5;
TextView tv1;
int n1=0,n2=0;
String s1,s2;
@Override
protected void onCreate(Bundle savedInstanceState)
{
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
t1 = (EditText) findViewById(R.id.et1);
t2 = (EditText) findViewById(R.id.et2);
b1 = (Button) findViewById(R.id.btnAdd);
b2 = (Button) findViewById(R.id.btnSub);
b3 = (Button) findViewById(R.id.btnMult);
b4 = (Button) findViewById(R.id.btnDiv);
b5 = (Button) findViewById(R.id.btnClear);
```

```
tv1 = (TextView) findViewById(R.id.tv1);
b1.setOnClickListener(new OnClickListener() {
@Override
public void onClick(View v) {
String s1 = t1.getText().toString();
String s2 = t2.getText().toString();
n1 = Integer.parseInt(s1);
n2 = Integer.parseInt(s2);
int sum = n1 + n2;
tv1.setText("Addition ="+sum);
}
catch (NumberFormatException e)
}
}
});
b2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
try {
String s1 = t1.getText().toString();
String s2 = t2.getText().toString();
n1 = Integer.parseInt(s1);
n2 = Integer.parseInt(s2);
int sub = n1 - n2;
tv1.setText("Subtraction ="+sub);
}
catch (NumberFormatException e)
}
}
});
b3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
try {
String s1 = t1.getText().toString();
String s2 = t2.getText().toString();
n1 = Integer.parseInt(s1);
n2 = Integer.parseInt(s2);
int m = n1 * n2;
tv1.setText("Multiplication ="+m);
}
catch (NumberFormatException e)
{
}
}
});
b4.setOnClickListener(new View.OnClickListener() {
@Override
```

```
public void onClick(View v) {
try {
String s1 = t1.getText().toString();
String s2 = t2.getText().toString();
n1 = Integer.parseInt(s1);
n2 = Integer.parseInt(s2);
int d = n1 / n2;
tv1.setText("Division ="+d);
}
catch (NumberFormatException e)
}
}
});
b5.setOnClickListener(new OnClickListener() {
@Override
public void onClick(View v) {
t1.setText(" ");
t2.setText(" ");
tv1.setText(" ");
}
});
}
    }
```

Prac 6:

a) Programming menus and dialog

res(Right-click on res and select) -> New -> Android Resource File -> Filename(menus) and Resource Type Menu • Now go to, menus.xml file and make the following changes to code file,

menus.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        <item android:id="@+id/newb" android:title="File" />
        <item android:id="@+id/search" android:title="Open" />
        <item android:id="@+id/save" android:title="Save"/>
        <item android:id="@+id/Share" android:title="Save As" />
        <item android:id="@+id/delete" android:title="Delete" />
        <item android:id="@+id/Exit" android:title="Close" />
</menu>
```

.java

Prac 6:

b) Creation of Dialog:

mainactivity.xml

```
<?xml version="1.0" encoding="utf-8"?>
   <Button android:layout height="wrap content"</pre>
   <TextView
</LinearLayout>
```

```
public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState)
       super.onCreate(savedInstanceState);
   public void onClickDialog(View v)
           @Override public void onClick(DialogInterface dialog, int id)
           @Override public void onClick(DialogInterface dialog, int id)
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout
  xmlns:android="http://schemas.android.com/apk/res/a
  ndroid"
  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">
  <LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical">
    <EditText
      android:hint="Type URL Here"
      android:id="@+id/website"
      android:layout width="fill parent"
      android:layout height="75dp"
      android:ems="5"></EditText>
    <Button
      android:id="@+id/runWebsite"
      android:layout width="fill pare
      nt "
      android:layout height="45dp"
      android:text="Run WebSite on Browser" />
</LinearLayout>
</RelativeLayout>
```

Main.java:

```
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
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 runWebsite = (Button) findViewById(R.id.runWebsite);
runWebsite.setOnClickListener(new View.OnClickListener() {
public void onClick(View view) {
EditText website = (EditText) findViewById(R.id.website);
String strURL = website.getText().toString();
if (strURL.indexOf("http://www") < 0) {</pre>
strURL = "http://www." + strURL;
Intent implicit = new Intent(Intent.ACTION VIEW, Uri.parse(strURL));
startActivity(implicit);
}
});
}
}
```