22/08/2024

Activity_main.xml

```xml
<?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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textColor="@color/red"
        android:textSize="30sp"
        android:text="@string/hel"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="30px">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textSize="24sp"
        android:text="Enter Number 1:"
        android:textColor="@color/black" />

    <EditText
        android:id="@+id/edit1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="30px">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
```

```xml
            android:textSize="24sp"
            android:text="Enter Number 2:"
            android:textColor="@color/black" />

        <EditText
            android:id="@+id/edit2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </LinearLayout>
    <TextView
        android:id="@+id/txt_res"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:textSize="24sp"
        android:textColor="@color/black" />
    <Button
        android:id="@+id/submit_btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:text="Calculate"
        android:layout_marginTop="30px">
    </Button>
    <Button
        android:id="@+id/popup"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:text="POPUP"
        android:layout_marginTop="30px">
    </Button>
</LinearLayout>
```

MainActivity.java

```java
package com.example.mynewapplication;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.LinearLayout;
import android.widget.PopupWindow;
import android.widget.TextView;
```

```java
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.android.material.snackbar.Snackbar;

public class MainActivity extends AppCompatActivity {
    Button btn_submit,popup;
    EditText e_num1,e_num2;
    TextView txt_res;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        e_num1=(EditText)findViewById(R.id.edit1);
        e_num2=(EditText)findViewById(R.id.edit2);
        btn_submit=(Button)findViewById(R.id.submit_btn);
        popup=(Button)findViewById(R.id.popup);
        txt_res=(TextView)findViewById(R.id.txt_res);
        btn_submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int n1=Integer.parseInt(e_num1.getText().toString());
                int n2=Integer.parseInt(e_num2.getText().toString());
                int sum=n1+n2;

Snackbar.make(view,"Sum="+sum,Snackbar.LENGTH_LONG).setAction("Undo", new
View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        Toast.makeText(getApplicationContext(),"The sum
is:"+sum,Toast.LENGTH_LONG).show();
                    }
                }).setBackgroundTint(getColor(R.color.red)).show();
                txt_res.setText("Sum ="+sum);
                Log.v("New App",String.valueOf(sum));
            }
        });
        popup.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                LayoutInflater inflater=(LayoutInflater)
getSystemService(LAYOUT_INFLATER_SERVICE);
                View popupView=inflater.inflate(R.layout.popup,null);
```

```java
                PopupWindow popupWindow=new PopupWindow(
                        popupView,
                        LinearLayout.LayoutParams.WRAP_CONTENT,
                        LinearLayout.LayoutParams.WRAP_CONTENT
                        );
                popupWindow.setFocusable(true);
                popupWindow.showAsDropDown(popup);
                TextView tv2 =  popupView.findViewById(R.id.result);
                tv2.setVisibility(View.INVISIBLE);
                TextView tv=popupView.findViewById(R.id.result2);
                tv.setText("Hello");
            }
        });
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
            return insets;
        });
    }
}
```
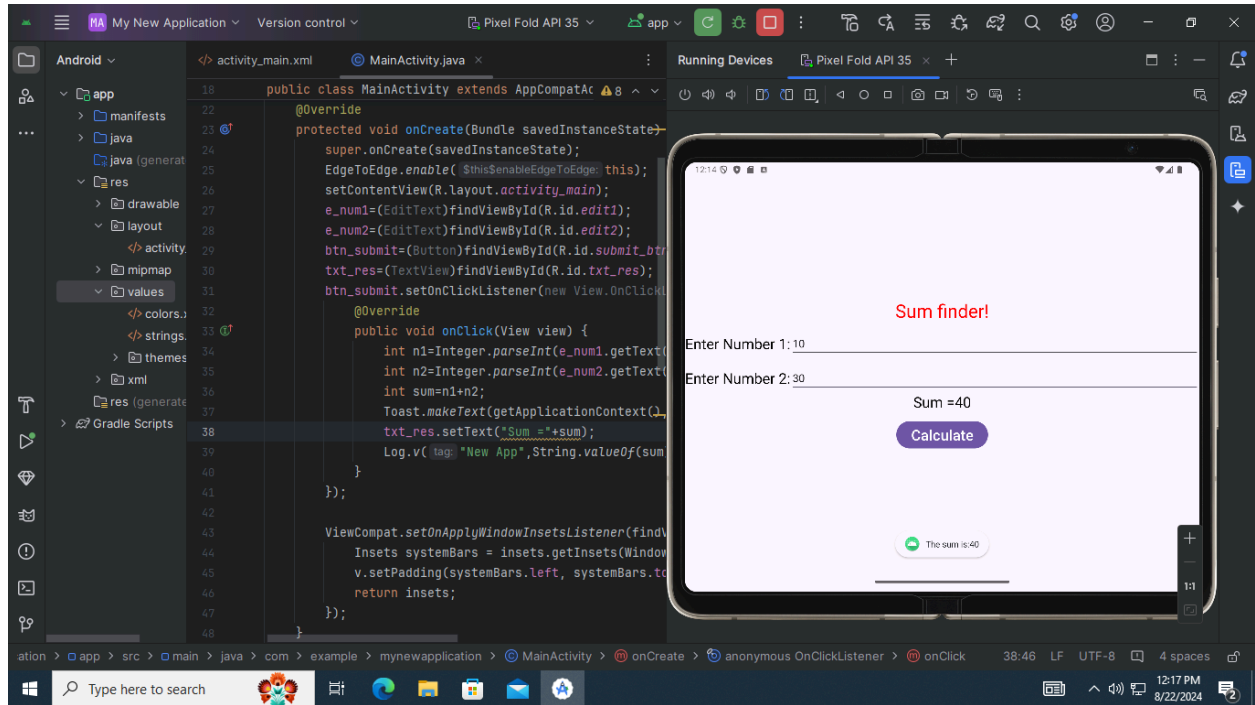
Popup.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/popup">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/result"
        android:text="Poped Up"
        android:textColor="@color/red"
        android:textSize="35sp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/result2"
        android:textColor="@color/red"
        android:textSize="35sp"/>
</LinearLayout>
</LinearLayout>
```

Output 1

Output2