Activity_main.xml

```
android:layout width="match parent"
android:layout height="match parent"
<TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout gravity="center"
    android:text="@string/calculator"
<LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="90px"
    android:orientation="horizontal">
    <TextView
        android:layout height="wrap content"
        android:textSize="18sp" />
        android:id="@+id/edit1"
        android:layout width="match parent"
</LinearLayout>
<LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="90px"
    android:orientation="horizontal">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:text="@string/enter second number"
```

```
android:textColor="@color/black"
            android:id="@+id/edit2"
            android:layout width="match parent"
           android:layout height="wrap content" />
   <TextView
       android:id="@+id/t1"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout gravity="center"
       android:layout margin="20px"
       android:textColor="@color/red"/>
       android:id="@+id/b"
       android:layout height="wrap content"
       android:layout_width="wrap_content"
       android:layout_gravity="center"
   </Button>
</LinearLayout>
```

Mainactivity.java

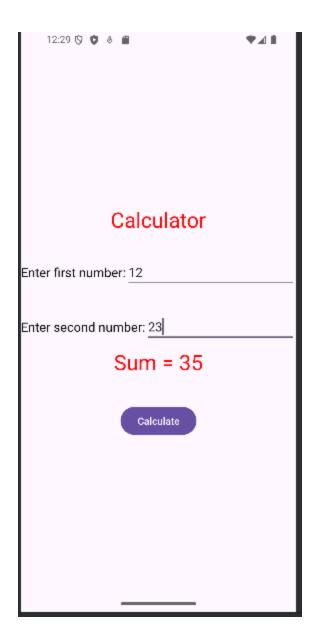
```
package com.example.mynewapplication;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

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;

public class MainActivity extends AppCompatActivity {
    Button b;
    EditText edit1,edit2;
    TextView t1:
```

```
protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       EdgeToEdge.enable(this);
       setContentView(R.layout.activity main);
       edit1 = (EditText) findViewById(R.id.edit1);
                int n1 = Integer.parseInt(edit1.getText().toString());
                int n2 = Integer.parseInt(edit2.getText().toString());
               int sum = n1+n2;
               Toast.makeText(getApplicationContext(), "Sum = "+sum,
Toast.LENGTH LONG).show();
               Log.v("Ajce",String.valueOf(sum));
       ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
           return insets;
```



SNACKBAR AND POPUP

main_activity.java

```
package com.example.mynewapplication;
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.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.WindowInsetsCompat;
import com.google.android.material.snackbar.Snackbar;
public class MainActivity extends AppCompatActivity {
  EditText edit1,edit2;
  TextView t1;
  protected void onCreate(Bundle savedInstanceState) {
      setContentView(R.layout.activity main);
      edit1 = (EditText)findViewById(R.id.edit1);
      b = (Button) findViewById(R.id.b);
      t1 = (TextView) findViewById(R.id.t1);
```

```
int n1 = Integer.parseInt(edit1.getText().toString());
               int n2 = Integer.parseInt(edit2.getText().toString());
              int sum = n1+n2;
               Snackbar.make(view, "Sum = "+sum,
Snackbar.LENGTH LONG).setAction("UNDO",
                               Toast.makeText(getApplicationContext(), "Sum =
                       }).setBackgroundTint(getColor(R.color.red)).show();
              Log.v("Ajce", String.valueOf(sum));
      b2.setOnClickListener(new View.OnClickListener() {
              LayoutInflater inflater = (LayoutInflater)
getSystemService(LAYOUT INFLATER SERVICE);
              View popupView = inflater.inflate(R.layout.popup, null);
               PopupWindow popupWindow = new PopupWindow(
                       popupView,
                       LinearLayout.LayoutParams.WRAP CONTENT,
                       LinearLayout.LayoutParams.WRAP CONTENT
               popupWindow.setFocusable(true);
```

```
popupWindow.showAsDropDown(b2);
    TextView tv = popupView.findViewById(R.id.popup_result);
    tv.setText("Try again");
}

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
        Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars.top, systemBars.right, systemBars.bottom);
        v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
        return insets;
    });
}
```

popup.xml

```
</LinearLayout>
```

// if there are more than one item in the xml file and what to hide one more widget

MENU

Options menu

activity_main.xml

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

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
      app:layout constraintLeft toLeftOf="parent"
      android:layout width="wrap content"
      android:layout height="wrap content"
      app:layout constraintBottom toBottomOf="parent"
      app:layout constraintEnd toEndOf="parent"
      app:layout constraintStart toStartOf="parent"
      app:layout constraintTop toTopOf="parent" />
(/androidx.constraintlayout.widget.ConstraintLayout>
```

menu.xml

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

MainActivity.java

```
package com.example.optionsmenu;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.view.menu.MenuBuilder;
import androidx.appcompat.widget.Toolbar;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
   private Toolbar toolbar;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
      toolbar = (Toolbar) findViewById(R.id.toolbar);
      setSupportActionBar(toolbar);
      MenuInflater inflater = getMenuInflater();
      inflater.inflate(R.menu.menu, menu);
          MenuBuilder m = (MenuBuilder) menu;
          m.setOptionalIconsVisible(true);
      return super.onCreateOptionsMenu(menu);
      Toast.makeText(this, "Selected Items: " + item.getTitle(),
Toast.LENGTH SHORT).show();
       } else if (item.getItemId() == R.id.it2) {
       } else if (item.getItemId() == R.id.it6) {
```

```
} else {
    return super.onOptionsItemSelected(item);
}
```

string.xml