Project 1

Android Studio

TOPIC:- CALCULATOR

Activity main.xml file source code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   android:layout_height="match_parent"
   android:orientation="horizontal"
   <TextView
        android:id="@+id/head"
       android:textStyle="bold"
       android:minWidth="300dp"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintEnd toEndOf="parent"
   <TextView
        android:id="@+id/tx1"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Enter First Number"
       android:textColor="@color/black"
       android:textSize="64px"
        android:textStyle="normal"
        android:textAlignment="center"
        app:layout constraintTop toTopOf="@+id/head"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintVertical bias="0.130"
    <TextView
        android:id="@+id/tx2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Enter Ssecond Number"
```

```
android:textSize="64px"
    android:textColor="@color/black"
    android:orientation="vertical"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintVertical bias="0.280"
<EditText
   android:id="@+id/ed1"
   android:layout margin="95sp"
   android:text=""
   android:textColor="@color/black"
   android:textSize="25sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.1"
<EditText
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout margin="95sp"
   android:textColor="@color/black"
   android:textSize="25sp"
   android:textStyle="bold"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
<TextView
    android:layout width="match parent"
    android:layout height="wrap content"
```

```
app:layout constraintVertical bias="0.54"
app:layout constraintEnd toEndOf="parent"
android:id="@+id/b2"
android:layout width="match parent"
android:layout height="wrap content"
android:layout margin="90dp"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintBottom toBottomOf="parent"
app:layout_constraintEnd toEndOf="parent"
android:id="@+id/b3"
android:layout width="match parent"
android:layout height="wrap content"
app:layout constraintTop toTopOf="parent"
app:layout constraintVertical bias="0.772"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintEnd toEndOf="parent"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Division"
android:textSize="20sp"
android:textStyle="normal"
android:layout_margin="90dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintDendtof="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintBottom_toBottomOf="parent"
tools:ignore="MissingConstraints"
/>
<Button
android:id="@+id/clear"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Clear all"
android:textColor="#123485"
android:textSize="20sp"
android:textStyle="normal"
android:layout_margin="90dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintDop_toTopOf="parent"
app:layout_constraintDotom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintEnd_toEndOf="parent"
tools:ignore="MissingConstraintLayout>"
```

MainActivity.kt File source code :

```
import android.widget.TextView
import android.widget.EditText
import android.widget.Button
import androidx.activity.enableEdgeToEdge
class MainActivity : AppCompatActivity() {
   override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity main)
        val head: TextView= findViewById(R.id.head)
        val result: TextView= findViewById(R.id.result)
        val tx1: TextView= findViewById(R.id.tx1)
        val tx2: TextView= findViewById(R.id.tx2)
        val ed1: EditText= findViewById(R.id.ed1)
        val ed2: EditText= findViewById(R.id.ed2)
        val b1: Button= findViewById(R.id.b1)
       val b2: Button= findViewById(R.id.b2)
```

```
val b3: Button= findViewById(R.id.b3)
val b4: Button= findViewById(R.id.b4)
val clear: Button= findViewById(R.id.clear)
b1.setOnClickListener {
   val r1 = ed1.text.toString().toInt() +
ed2.text.toString().toInt()
        result.text= r1.toString()
   }
   b2.setOnClickListener {
        val r2 = ed1.text.toString().toInt() -
ed2.text.toString().toInt()
        result.text= r2.toString()
   }
   b3.setOnClickListener {
        val r3 = ed1.text.toString().toInt() *
ed2.text.toString().toInt()
        result.text= r3.toString()
   }
   b4.setOnClickListener {
        val r4 = ed1.text.toString().toInt() /
ed2.text.toString().toInt()
        result.text= r4.toString()
   }
   clear.setOnClickListener {
        val r4 = ed1.text.toString()
        result.text= r4.toString()
        result.text= r4.toString()
   }
   clear.setOnClickListener {
        ed1.text.clear()
        result.text=" "
    }
}
```

Palette Interface :



