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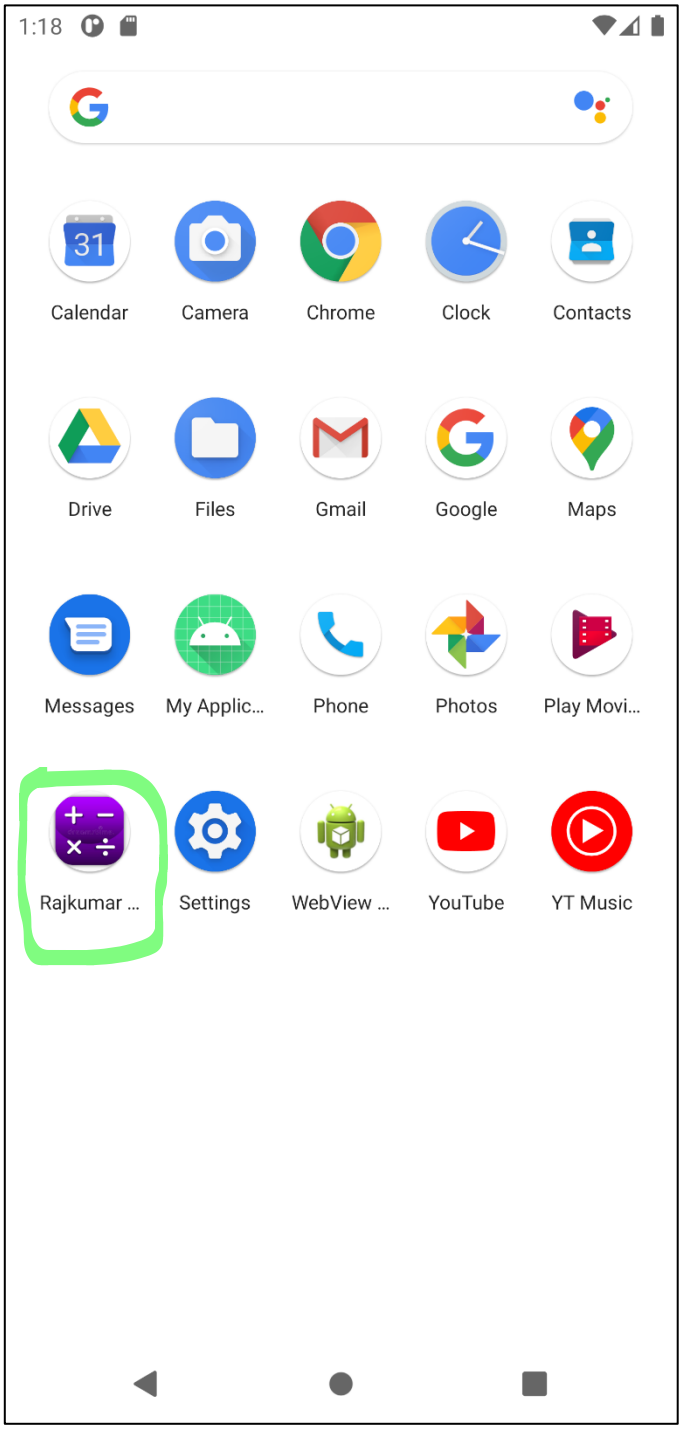
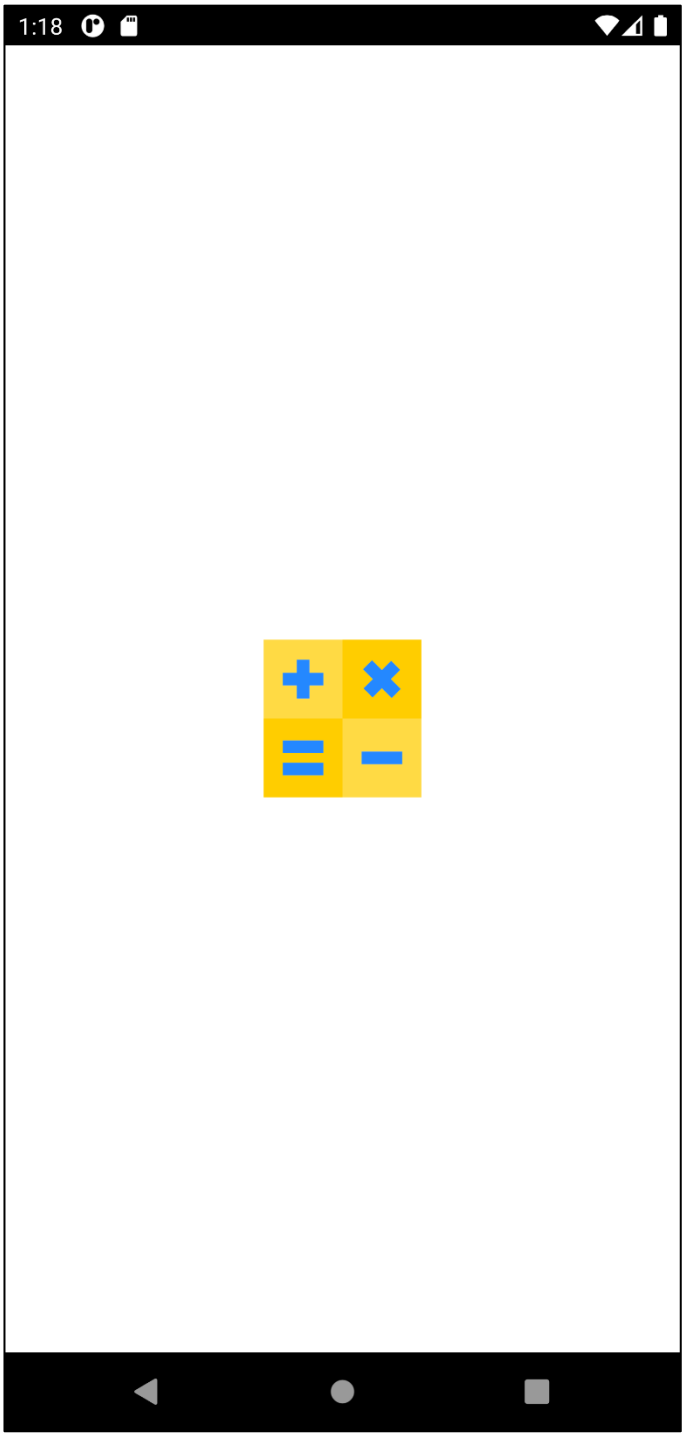
Course : MCS 272 Mobile Application (Lab 02 - Calculator)

Output:

1. App Icon

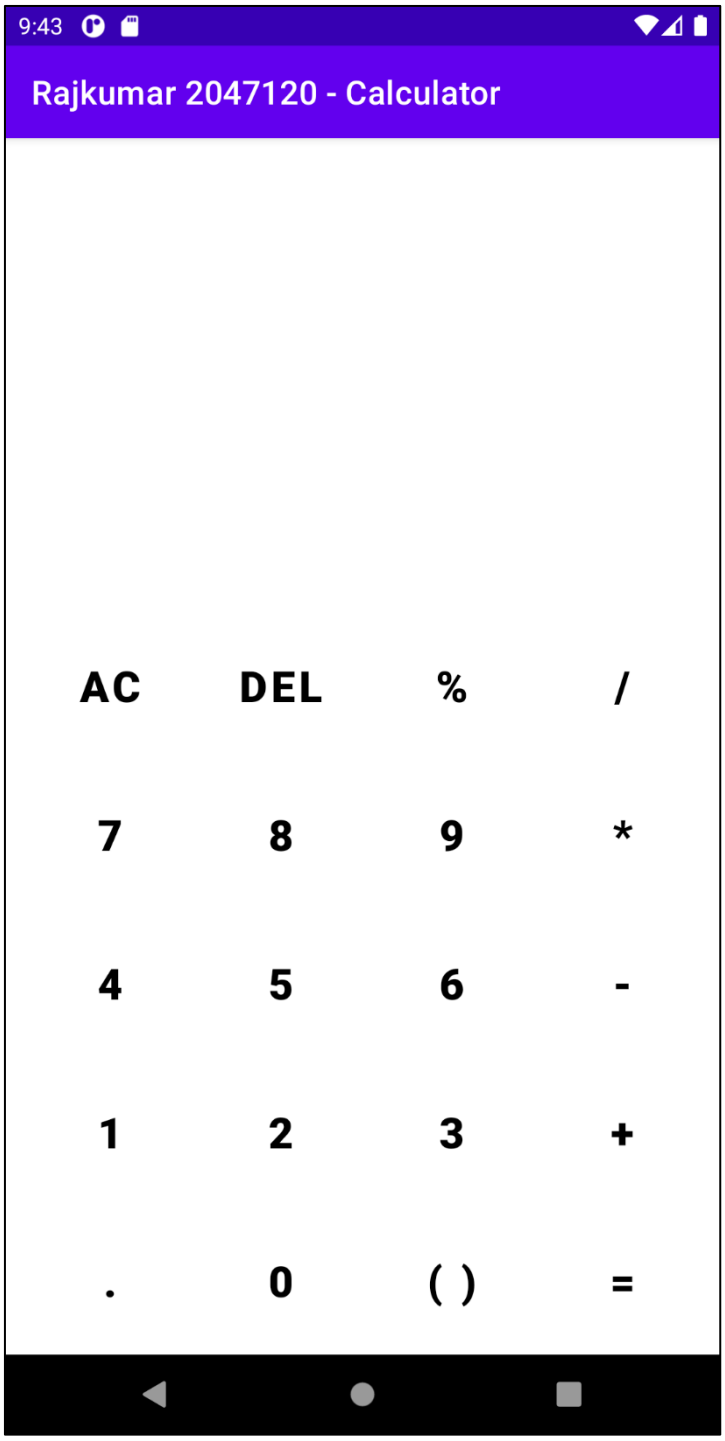


2. Splash Screen.

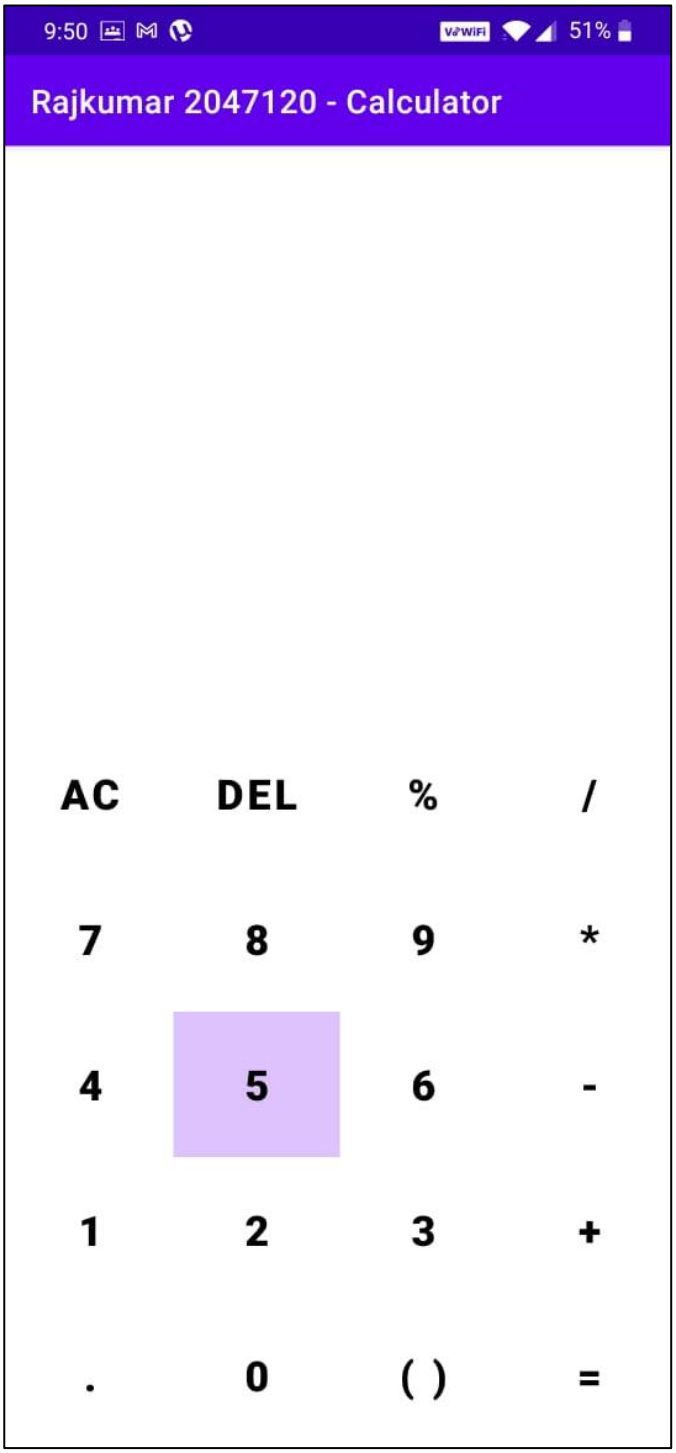


Note: Ripple effect is added to the buttons i.e., clicking on the button will change the background color of the button for few milliseconds to enhance the UI/UX. Clicking on the **DEL** button deletes one character to the left of the input and clicking on **AC** button empties the entire screen deleting any result or the expression.

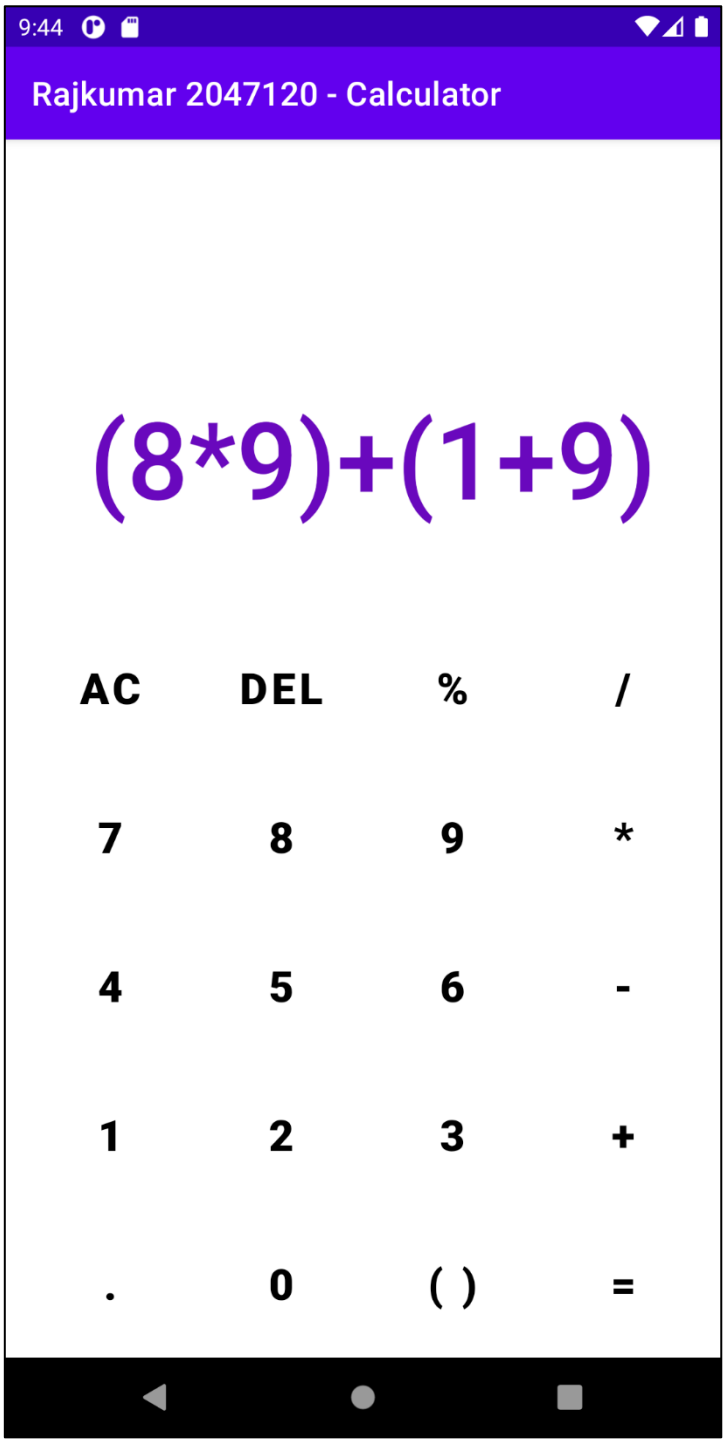
3. Welcome Screen.



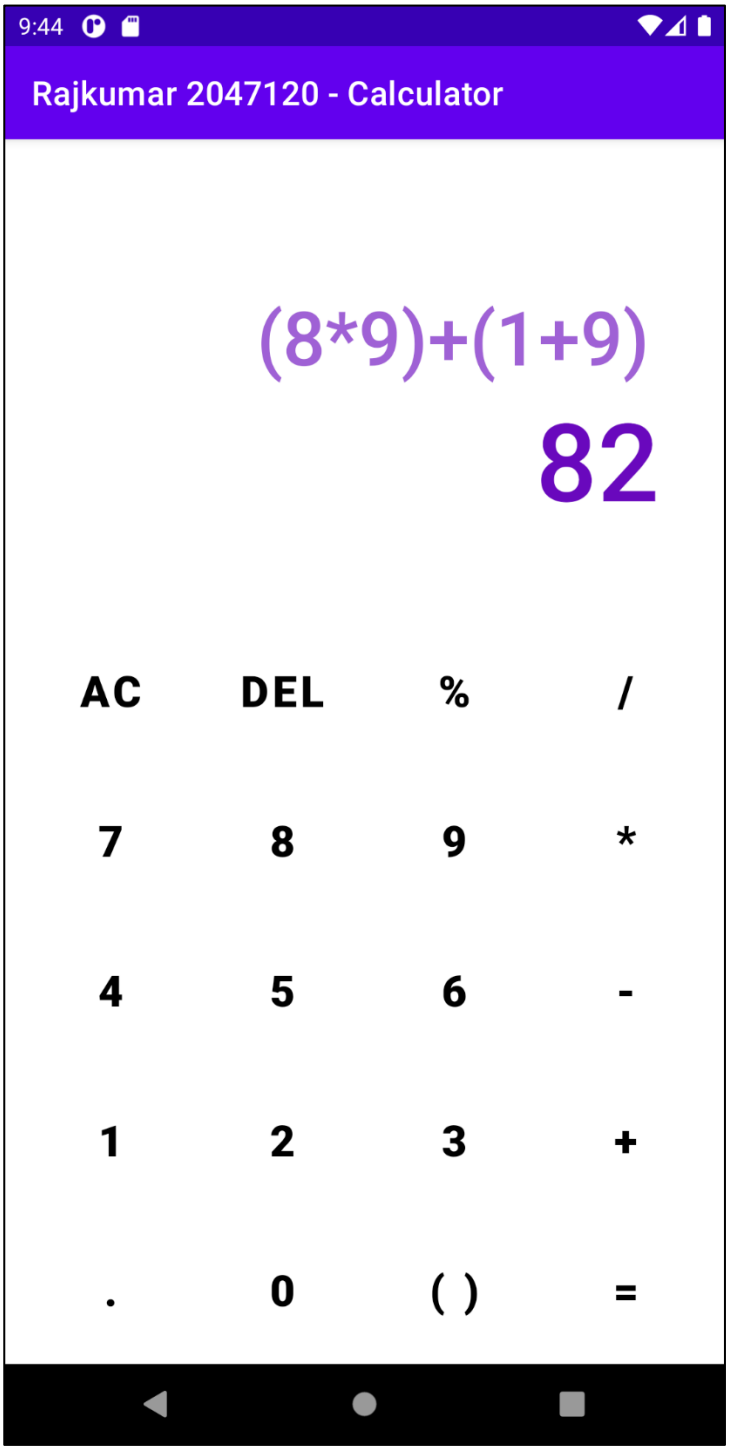
4. Button Ripple Effect.



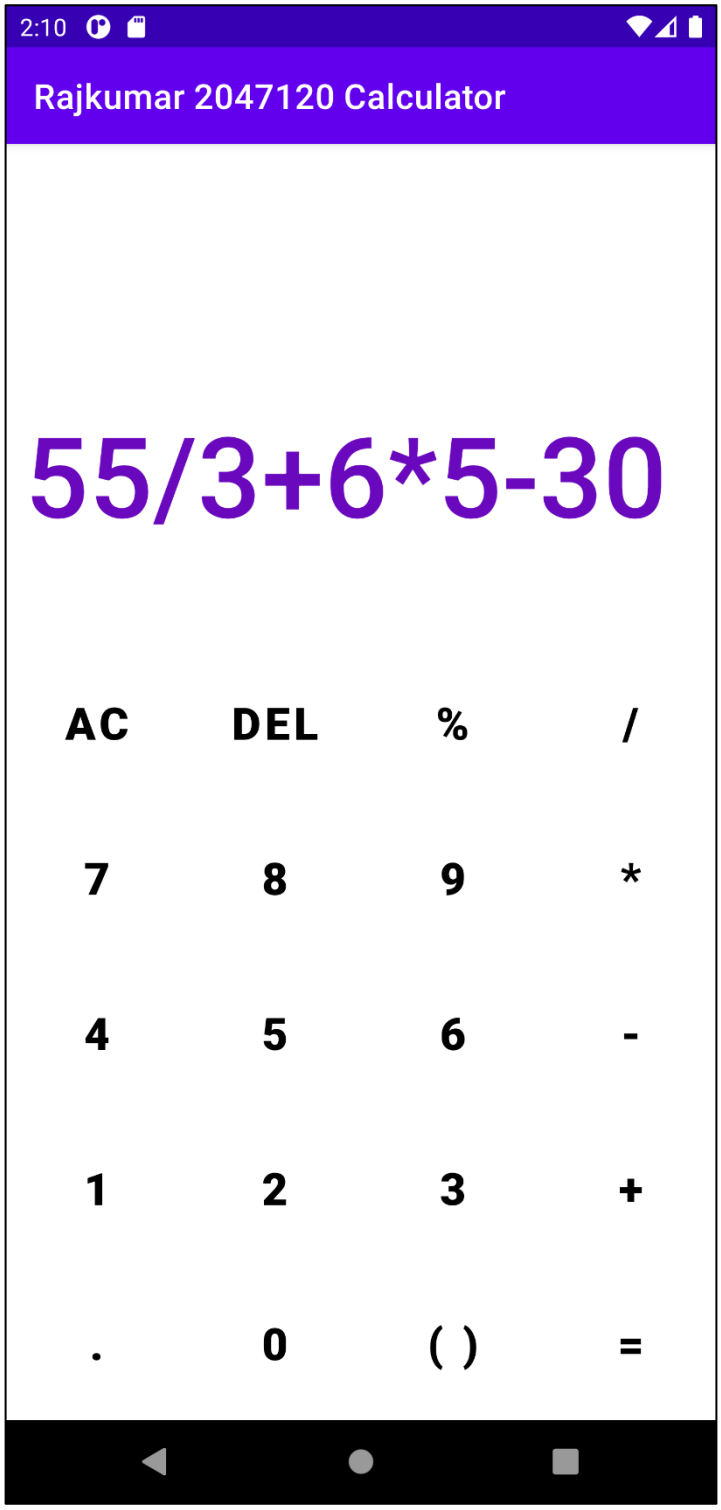
5. Expression Input - 01.



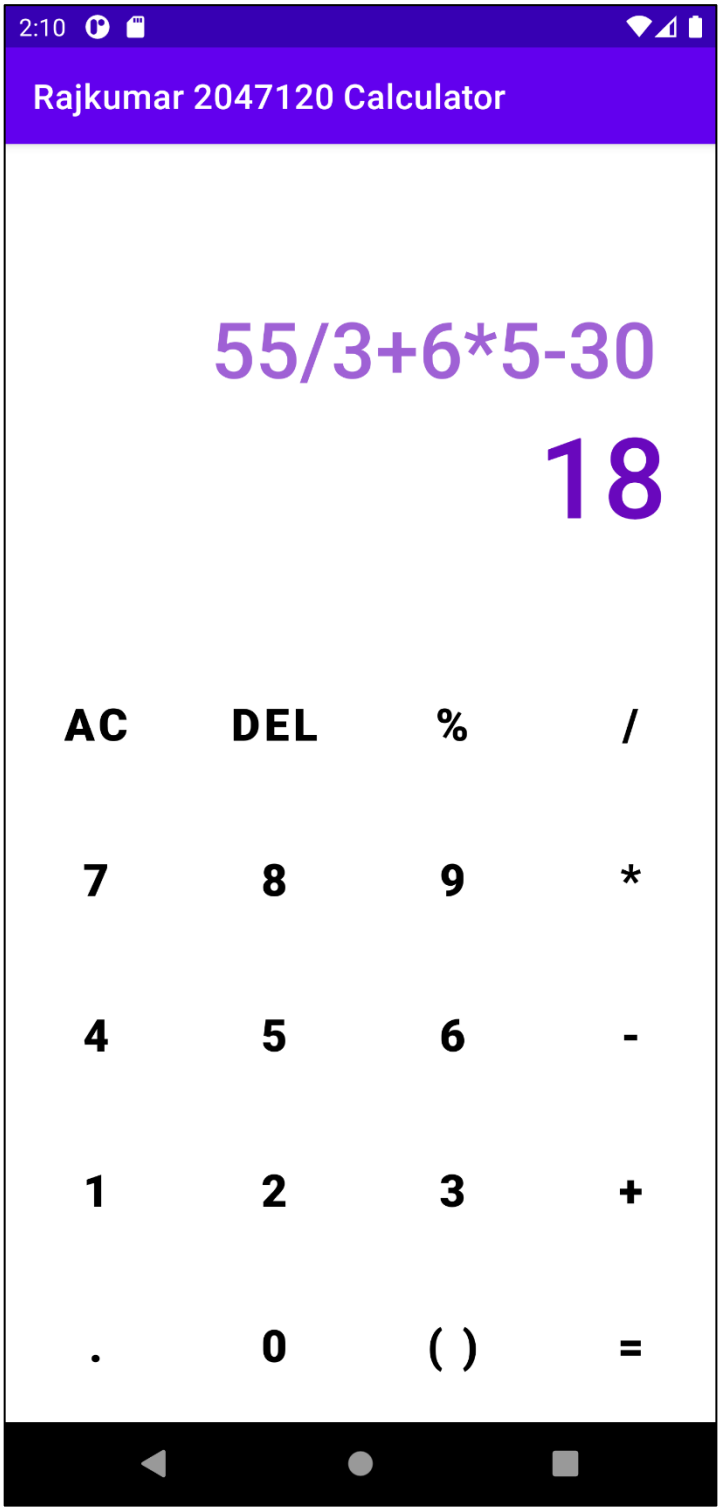
6. Result 01.



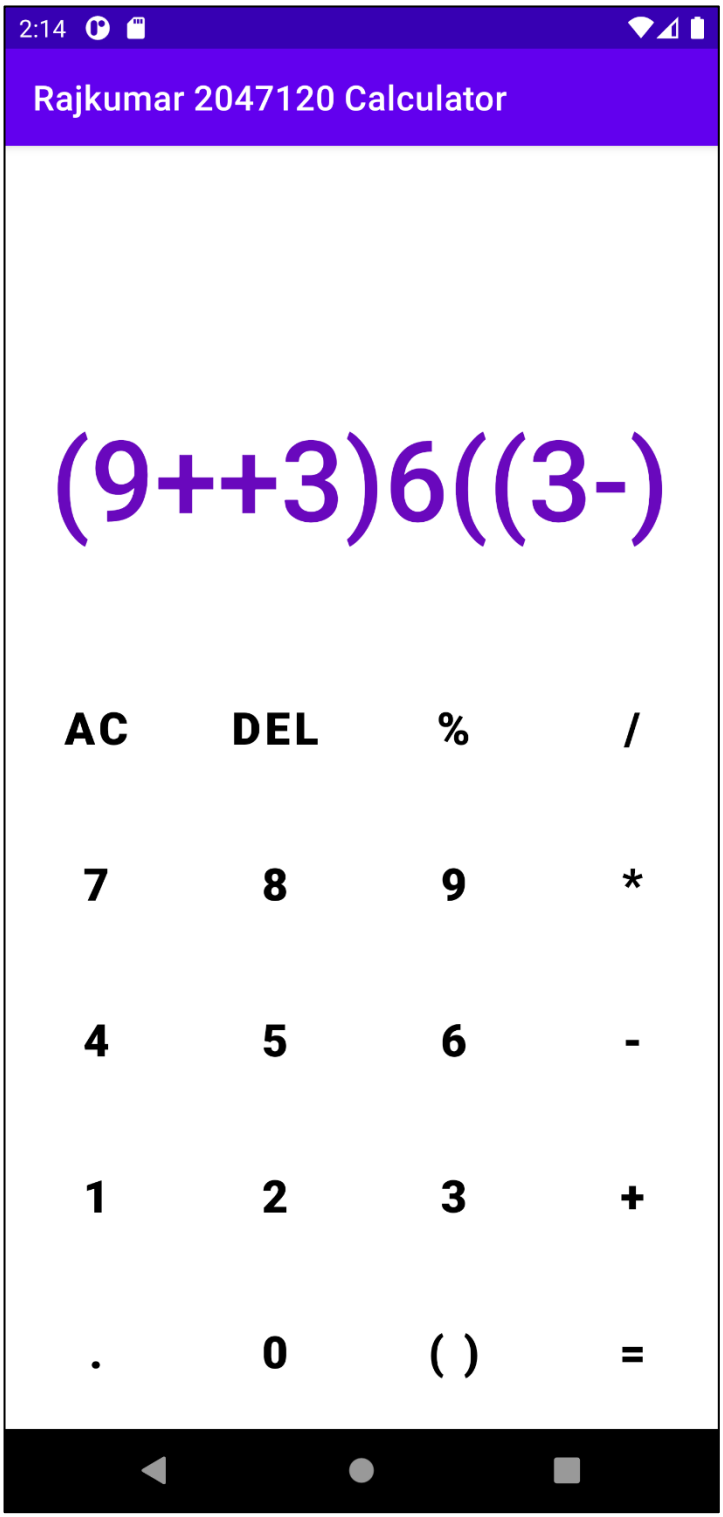
7. Expression Input - 03.



8. Result 03.



9. Expression Input - 03.



10. Result 03.

The code used in the Main Activity, XML layout, Splash scree, button ripple effect is attached below for reference.

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout 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">

        <LinearLayout
            android:id="@+id/linearLayout"
            android:layout_width="412dp"
            android:layout_height="0dp"
            android:orientation="vertical"
            app:layout_constraintBottom_toTopOf="@+id/
tableLayout"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent">

            <TextView
                android:id="@+id/textView5"
                android:layout_width="match_parent"
                android:layout_height="88dp" />

            <TextView
                android:id="@+id/expr"
                android:layout_width="377dp"
                android:layout_height="wrap_content"
                android:fontFamily="sans-serif-medium"
                android:textAlignment="textEnd"
                android:textColor="#A36908BD"
                android:textSize="45sp" />

            <TextView
                android:id="@+id/result"
                android:layout_width="383dp"
                android:layout_height="135dp"
                android:fontFamily="sans-serif-medium"
                android:textAlignment="textEnd"
                android:textAppearance="@style/
TextAppearance.AppCompat.Display1"
                android:textColor="#6908BD"
                android:textSize="65sp" />

        </LinearLayout>
```

```

        <TableLayout
            android:id="@+id/tableLayout"
            android:layout_width="409dp"
            android:layout_height="wrap_content"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent">

            <TableRow
                android:id="@+id/Row1"
                android:layout_width="match_parent"
                android:layout_height="match_parent">

                <Button
                    android:id="@+id/ac"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:backgroundTint="@color/white"
                    android:background="@drawable/ripple_effect_btn"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_ac"
                    android:text="AC"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/del"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_del"
                    android:text="DEL"
                    android:textColor="#000000"
```

```
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/percent"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_percnt"
                    android:text="%"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/div"
                    android:layout_width="103dp"
                    android:layout_height="90dp"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_div"
                    android:text="/"
                    android:textColor="#000000"
                    android:textSize="26sp" />

            </TableRow>

            <TableRow
                android:id="@+id/Row2"
                android:layout_width="match_parent"
                android:layout_height="match_parent">

                <Button
                    android:id="@+id/seven"
                    android:layout_width="103dp"
```

```
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_seven"
                    android:text="7"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/eight"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_eight"
                    android:text="8"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/nine"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_nine"
                    android:text="9"
                    android:textColor="#000000"
```

```
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/mult"
                    android:layout_width="103dp"
                    android:layout_height="90dp"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_multp"
                    android:text="*"
                    android:textColor="#000000"
                    android:textSize="26sp" />

            </TableRow>

            <TableRow
                android:id="@+id/Row3"
                android:layout_width="match_parent"
                android:layout_height="match_parent">

                <Button
                    android:id="@+id/four"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_four"
                    android:text="4"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/five"
                    android:layout_width="103dp"
```

```
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_five"
                    android:text="5"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/six"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_six"
                    android:text="6"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/minus"
                    android:layout_width="103dp"
                    android:layout_height="90dp"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_minus"
                    android:text="-"
                    android:textColor="#000000"
```

```
                    android:textSize="26sp" />

            </TableRow>

            <TableRow
                android:id="@+id/Row4"
                android:layout_width="match_parent"
                android:layout_height="match_parent">

                <Button
                    android:id="@+id/one"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/
    ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_one"
                    android:text="1"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/two"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/
    ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_two"
                    android:text="2"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/three"
                    android:layout_width="103dp"
```

```
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_three"
                    android:text="3"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/plus"
                    android:layout_width="103dp"
                    android:layout_height="90dp"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_plus"
                    android:text="+"
                    android:textColor="#000000"
                    android:textSize="26sp" />

            </TableRow>

            <TableRow
                android:id="@+id/Row5"
                android:layout_width="match_parent"
                android:layout_height="137dp">

                <Button
                    android:id="@+id/dot"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
```

```
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:text="."
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/zero"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/
    ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_zero"
                    android:text="0"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/bracket"
                    android:layout_width="103dp"
                    android:layout_height="match_parent"
                    android:background="@drawable/
    ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_brackets"
                    android:text="( )"
                    android:textColor="#000000"
                    android:textSize="26sp" />

                <Button
                    android:id="@+id/equal"
                    android:layout_width="103dp"
                    android:layout_height="90dp"
```

```
                    android:background="@drawable/ripple_effect_btn"
                    android:backgroundTint="@color/white"
                    android:fontFamily="sans-serif-black"
                    android:insetLeft="0dp"
                    android:insetTop="0dp"
                    android:insetRight="0dp"
                    android:insetBottom="0dp"
                    android:onClick="click_equal"
                    android:text="="
                    android:textColor="#000000"
                    android:textSize="26sp" />

            </TableRow>

        </TableLayout>

    </androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.calculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

import static java.lang.Thread.sleep;

public class MainActivity extends AppCompatActivity {


    private String expr = "";
    private TextView main_disp;
    private TextView sub_disp;
    private boolean eval_flag = false;
    private boolean bracket_flag = false;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        main_disp = (TextView) findViewById(R.id.result);
        sub_disp = (TextView) findViewById(R.id.expr);
    }
    public void click_zero(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "0";
        main_disp.setText(expr);
    }

    public void click_one(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "1";
        main_disp.setText(expr);
    }

    public void click_two(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.
```

```
setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "2";
        main_disp.setText(expr);
    }

    public void click_three(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "3";
        main_disp.setText(expr);
    }

    public void click_four(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "4";
        main_disp.setText(expr);
    }

    public void click_five(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "5";
        main_disp.setText(expr);
    }

    public void click_six(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "6";
        main_disp.setText(expr);
    }

    public void click_seven(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
```

```
        expr = main_disp.getText().toString();
        expr = expr + "7";
        main_disp.setText(expr);
    }

    public void click_eight(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "8";
        main_disp.setText(expr);
    }

    public void click_nine(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "9";
        main_disp.setText(expr);
    }

    public void click_dot(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + ".";
        main_disp.setText(expr);
    }

    public void click_plus(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "+";
        main_disp.setText(expr);
    }

    public void click_minus(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
```

```
        expr = expr + "-";
        main_disp.setText(expr);
    }

    public void click_multp(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "*";
        main_disp.setText(expr);
    }

    public void click_div(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "/";
        main_disp.setText(expr);
    }

    public void click_percnt(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        expr = expr + "%";
        main_disp.setText(expr);
    }

    public void click_ac(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        main_disp.setText("");
        expr="";
    }

    public void click_del(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        if(expr.length() > 0) {
            expr = expr.substring(0, expr.length() - 1);
```

```
        }
        main_disp.setText(expr);
    }

    public void click_brackets(View v)
    {
        if (eval_flag){sub_disp.setText("");main_disp.setText("");eval_flag=false;}
        expr = main_disp.getText().toString();
        if(expr.length() == 0) {
            expr = expr+"(";
            bracket_flag = true;
        }
        else if((expr.length()>0) && (expr.endsWith("(")))
        {
            expr = expr+"(";
        }
        else if((expr.length()>0) && (expr.endsWith(")")))
        {
            expr = expr+")";
        }
        else if(!bracket_flag)
        {
            expr = expr+"(";
            bracket_flag = true;
        }
        else
        {
            expr = expr+")";
            bracket_flag = false;
        }

        main_disp.setText(expr);
    }

    public void click_equal(View v)
    {
        int result = 0;
        sub_disp.setText(expr);
        if(!expr.isEmpty())
        {
            try {
                result = EvaluateString.evaluate(expr);
                main_disp.setText(Integer.toString(result));
            } catch (Exception e) {
```

```
                e.printStackTrace();
                main_disp.setText("Invalid Expr");
            }
            expr="";
            eval_flag = true;
        }
    }
}
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<ripple xmlns:android="http://schemas.android.com/apk/res/android"
    android:color="@color/purple_200">
    <item
        android:id="@android:id/mask"
        android:drawable="@color/purple_200" />
</ripple>
```

```
 1 package com.example.calculator;
 2
 3 /*
 4    A Java program to evaluate a
 5    given expression where tokens
 6    are separated by space.
 7    @Credits - GeeksOfGeeks
 8    Used by Rajkumar B L
 9 */
10 import java.util.Stack;
11
12 public class EvaluateString
13 {
14     public static int evaluate(String expression)
15     {
16         char[] tokens = expression.toCharArray();
17
18         // Stack for numbers: 'values'
19         Stack<Integer> values = new
20                 Stack<Integer>();
21
22         // Stack for Operators: 'ops'
23         Stack<Character> ops = new
24                 Stack<Character>();
25
26         for (int i = 0; i < tokens.length; i++)
27         {
28
29             // Current token is a
30             // whitespace, skip it
31             if (tokens[i] == ' ')
32                 continue;
33
34             // Current token is a number,
35             // push it to stack for numbers
36             if (tokens[i] >= '0' &&
37                     tokens[i] <= '9')
38             {
39                 StringBuffer sbuf = new
40                         StringBuffer();
41
42                 // There may be more than one
43                 // digits in number
44                 while (i < tokens.length &&
45                         tokens[i] >= '0' &&
46                         tokens[i] <= '9')
```

```
                    sbuf.append(tokens[i++]);
                values.push(Integer.parseInt(sbuf.
                        toString()));

                // right now the i points to
                // the character next to the digit,
                // since the for loop also increases
                // the i, we would skip one
                //  token position; we need to
                // decrease the value of i by 1 to
                // correct the offset.
                i--;
            }

            // Current token is an opening brace,
            // push it to 'ops'
            else if (tokens[i] == '(')
                ops.push(tokens[i]);

                // Closing brace encountered,
                // solve entire brace
            else if (tokens[i] == ')')
            {
                while (ops.peek() != '(')
                    values.push(applyOp(ops.pop(),
                            values.pop(),
                            values.pop()));
                ops.pop();
            }

            // Current token is an operator.
            else if (tokens[i] == '+' ||
                    tokens[i] == '-' ||
                    tokens[i] == '*' ||
                    tokens[i] == '/')
            {
                // While top of 'ops' has same
                // or greater precedence to current
                // token, which is an operator.
                // Apply operator on top of 'ops'
                // to top two elements in values stack
                while (!ops.empty() &&
                        hasPrecedence(tokens[i],
                                ops.peek()))
                    values.push(applyOp(ops.pop(),
                            values.pop(),
```

```
                            values.pop()));

                // Push current token to 'ops'.
                ops.push(tokens[i]);
            }
        }

        // Entire expression has been
        // parsed at this point, apply remaining
        // ops to remaining values
        while (!ops.empty())
            values.push(applyOp(ops.pop(),
                    values.pop(),
                    values.pop()));

        // Top of 'values' contains
        // result, return it
        return values.pop();
    }

    // Returns true if 'op2' has higher
    // or same precedence as 'op1',
    // otherwise returns false.
    public static boolean hasPrecedence(
            char op1, char op2)
    {
        if (op2 == '(' || op2 == ')')
            return false;
        if ((op1 == '*' || op1 == '/') &&
                (op2 == '+' || op2 == '-'))
            return false;
        else
            return true;
    }

    // A utility method to apply an
    // operator 'op' on operands 'a'
    // and 'b'. Return the result.
    public static int applyOp(char op,
                              int b, int a)
    {
        switch (op)
        {
            case '+':
                return a + b;
            case '-':
```

```
                return a - b;
            case '*':
                return a * b;
            case '/':
                if (b == 0)
                    throw new
                            UnsupportedOperationException(
                            "Cannot divide by zero");
                return a / b;
        }
        return 0;
    }
}
```

```
package com.example.calculator;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;

import static java.lang.Thread.sleep;

public class Splash_Activity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        try {
            sleep(1000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        startActivity(new Intent(this, MainActivity.class
));
    }
}
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:top="0dp"
          android:bottom="0dp"
          android:left="0dp"
          android:right="0dp"
          android:drawable="@color/white" ></item>
    <item android:drawable="@drawable/ic_download"
          android:height="96dp"
          android:width="96dp"
        android:gravity="center">
    </item>

</layer-list>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.calculator">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="Rajkumar 2047120 Calculator"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Calculator">
        <activity android:name=".Splash_Activity"
            android:theme="@style/splash"
            android:noHistory="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".MainActivity"></activity>
    </application>

</manifest>
```