# PROGRAM – 2

## XML FILE

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:weightSum="1">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/linearLayout1"
        android:layout_marginLeft="10pt"
        android:layout_marginRight="10pt"
        android:layout_marginTop="3pt">
        <EditText
            android:layout_weight="1"
            android:layout_height="wrap_content"
            android:layout_marginRight="5pt"
            android:id="@+id/etNum1"
            android:layout_width="match_parent"
            android:inputType="text">
        </EditText>
        <EditText
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_marginLeft="5pt"
            android:id="@+id/etNum2"
            android:layout_width="match_parent"
            android:inputType="text">
        </EditText>
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/linearLayout2"
        android:layout_marginTop="3pt"
        android:layout_marginLeft="5pt"
        android:layout_marginRight="5pt">
        <Button
            android:layout_height="wrap_content"
            android:layout_width="match_parent"
            android:layout_weight="1"
            android:text="Concatenate"
            android:textSize="8pt"
            android:id="@+id/btnAdd">
        </Button>
    </LinearLayout>
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_marginLeft="5pt"
        android:layout_marginRight="5pt"
        android:textSize="12pt"
        android:layout_marginTop="3pt"
        android:id="@+id/tvResult"
        android:gravity="center_horizontal"
        android:layout_weight="0.07"
```

```xml
                android:textColor="#008000">
        </TextView>
</LinearLayout>
```

## JAVA FILE

```java
package com.example.conct1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity implements
        View.OnClickListener{
    EditText etNum1;
    EditText etNum2;
    Button btnAdd;
    TextView tvResult;
    String oper = " ";
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
// find the elements
        etNum1 = (EditText) findViewById(R.id.etNum1);
        etNum2 = (EditText) findViewById(R.id.etNum2);
        btnAdd = (Button) findViewById(R.id.btnAdd);
        tvResult = (TextView) findViewById(R.id.tvResult);
// set a listener
        btnAdd.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
// TODO Auto-generated method stub
        String num1 =  "";
        String num2 =  "";
        String result = "";
// check if the fields are empty
        if (TextUtils.isEmpty(etNum1.getText().toString())
                || TextUtils.isEmpty(etNum2.getText().toString())) {
            return;
        }
// read EditText and fill variables with numbers
        num1 = etNum1.getText().toString();
        num2 = etNum2.getText().toString();

// defines the button that has been clicked and performs the corresponding
operation
// write operation into oper, we will use it later for output
        switch (v.getId()) {
            case R.id.btnAdd:
                oper =  "+";
                result = num1 + num2;
                break;
            default:
                break;
        }
```

```
// form the output line
        tvResult.setText(num1 + " " + oper + " " + num2 + "   = " + result);
    }
}
```

**OUTPUT**