

Program 2. Create an application to concatenate two given Strings. (Consider changing the color of the result string to GREEN*)

Main activity.java

```
package com.example.concatenate;

//import android.support.v7.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;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity implements
    View.OnClickListener{

    EditText etNum1;
    EditText etNum2;
    Button btnAdd;
    TextView tvResult;

    /** 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 str1;
        String str2;

// 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
        str1 = etNum1.getText().toString();
        str2 = 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:
                tvResult.setText(str1 + str2 );
                break;

```

```

        default:
            break;
    }
// form the output line
    }
}

```

Activity_main.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="concatenation"

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"  
android:textColor="#a4c639">
```

```
</TextView>
```

```
</LinearLayout>
```

Output

