

Android Lab Record CYCLE 1

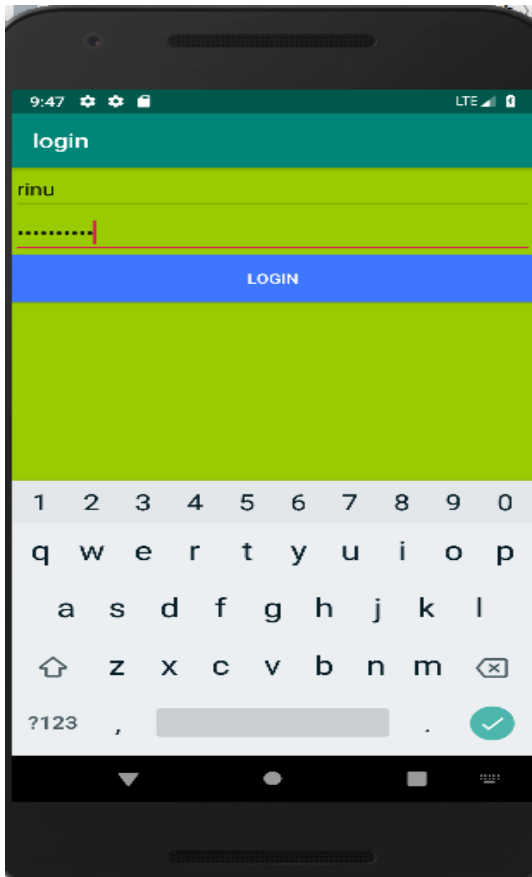
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1.) Design a Login page

xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#ff6347">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        android:textColor="#000000"
        android:layout_marginLeft="175dp"
        android:id="@+id/tv1"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Username"
        android:id="@+id/et1"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:id="@+id/et2" />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:background="#32cd32"
        android:textColor="#3f76ff"
        android:id="@+id/btn1"/>
</LinearLayout>
```

OUTPUT



2.) Change the content in the text view on a button click.

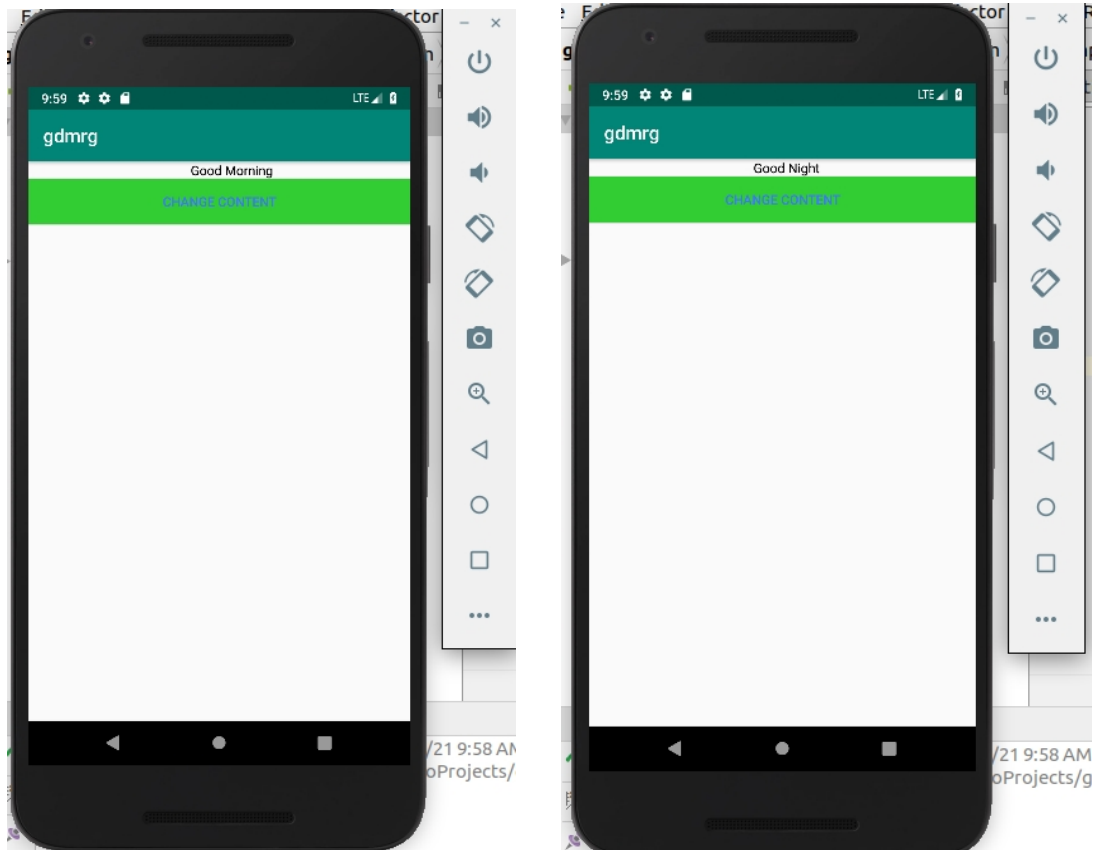
xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your Name"
        android:id="@+id/et1"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text=""
        android:textColor="#000000"
        android:layout_marginLeft="175dp"
        android:id="@+id/tv1"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Click Here"
        android:background="#32cd32"
        android:textColor="#3f76ff"
        android:id="@+id/btn1"
        android:onClick="Click"/>
</LinearLayout>
```

java

```
package com.example.sjcet.gdmrg;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void Click(View view) {
        ((TextView)findViewById(R.id.tv1)).setText("Good Night");
    }
}
```

OUTPUT



3.) Read a content from edit test and print it in text view.

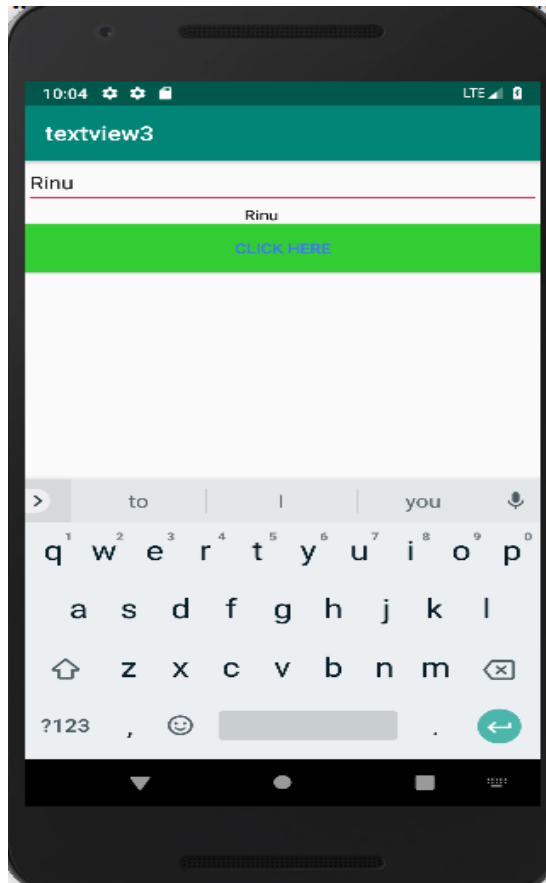
Xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your Name"
        android:id="@+id/et1"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text=""
        android:textColor="#000000"
        android:layout_marginLeft="175dp"
        android:id="@+id/tv1"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Click Here"
        android:background="#32cd32"
        android:textColor="#3f76ff"
        android:id="@+id/btn1"
        android:onClick="Click"/>
</LinearLayout>
```

java

```
package com.example.sjcet.textview3;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void Click(View view) {
        EditText edit = (EditText)findViewById(R.id.et1);
        TextView tvview = (TextView)findViewById(R.id.tv1);
        String result = edit.getText().toString();
        tvview.setText(result);
    }
}
```

OUTPUT



4.) Change the background colour on a button click.

Xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#191970"
    android:id="@+id/ll1">
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Click Here"
        android:background="#32cd32"
        android:textColor="#3f76ff"
        android:id="@+id/btn1"
        android:onClick="Click"/>
</LinearLayout>
```

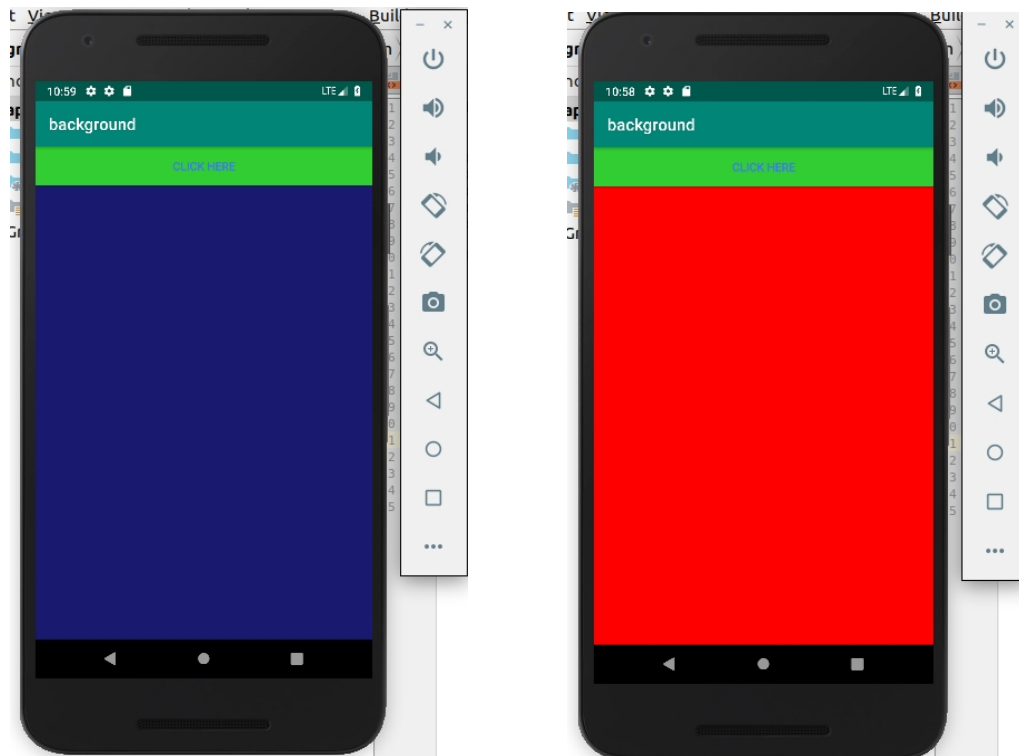
Java

```

package com.example.sjcet.background;
import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.LinearLayout;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void Click(View view) {
        LinearLayout layout1;
        layout1 = findViewById(R.id.ll1);
        layout1.setBackgroundColor(Color.RED);
    }
}

```

OUTPUT



5.) Create a Sample Calculator.

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">

```

```

<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="numberDecimal">
    </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="numberDecimal">
    </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="+"
        android:textSize="8pt"
        android:id="@+id/btnAdd">
    </Button>
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="-"
        android:textSize="8pt"
        android:id="@+id/btnSub">
    </Button>
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="*"
        android:textSize="8pt"
        android:id="@+id/btnMult">
    </Button>
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="/"
        android:textSize="8pt"

```



```

        android:id="@+id/btnDiv">
    </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">
</TextView>
</LinearLayout>

```

Java

```

package com.example.sjcet.calculator;
import android.app.Activity;
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 Activity implements View.OnClickListener {
    EditText etNum1;
    EditText etNum2;
    Button btnAdd;
    Button btnSub;
    Button btnMult;
    Button btnDiv;
    TextView tvResult;
    String oper = "";

    @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);
        btnSub = (Button) findViewById(R.id.btnSub);
        btnMult = (Button) findViewById(R.id.btnMult);
        btnDiv = (Button) findViewById(R.id.btnDiv);
        tvResult = (TextView) findViewById(R.id.tvResult);
        // set a listener
        btnAdd.setOnClickListener(this);
        btnSub.setOnClickListener(this);
        btnMult.setOnClickListener(this);
        btnDiv.setOnClickListener(this);
    }
    @Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        float num1 = 0;
        float num2 = 0;
        float result = 0;
    }
}

```

```

    if (TextUtils.isEmpty(etNum1.getText().toString())
        || TextUtils.isEmpty(etNum2.getText().toString())) {
        return;
    }

    num1 = Float.parseFloat(etNum1.getText().toString());
    num2 = Float.parseFloat(etNum2.getText().toString());

    switch (v.getId()) {
        case R.id.btnAdd:
            oper = "+";
            result = num1 + num2;
            break;
        case R.id.btnSub:
            oper = "-";
            result = num1 - num2;
            break;
        case R.id.btnMult:
            oper = "*";
            result = num1 * num2;
            break;
        case R.id.btnDiv:
            oper = "/";
            result = num1 / num2;
            break;
        default:
            break;
    }

    tvResult.setText(num1 + " " + oper + " " + num2 + " = " + result);
}
}

```

