

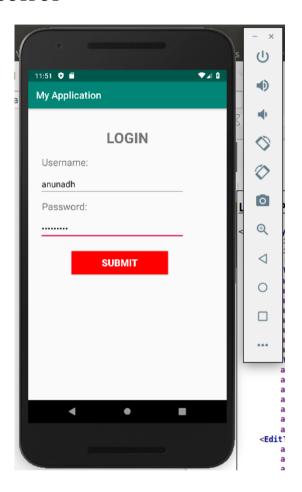
### 1.) Design a Login page

#### xml

```
<LinearLayout android:layout width="match parent"</pre>
    android:layout height="match parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
         android:layout width="match parent"
         android:layout height="wrap content"
         android:text="LOGIN"
         android:textAlignment="center"
         android:textSize="30dp"
         android:textStyle="bold"
         android:layout marginTop="40dp"
         android:id="@+id/t1"/>
    <TextView
         android:layout_width="match parent"
         android:layout_height="wrap_content"
         android:text="Username:"
         android:textSize="20dp"
         android:layout_marginLeft="28dp"
         android:layout_marginTop="17dp"
         android:id="@+id/t2"/>
    <EditText
         android:id="@+id/e1"
         android:layout width="300dp"
         android:layout height="wrap content"
         android:hint="Enter your name"
         android:layout_marginLeft="24dp"
         android:layout marginTop="10dp"/>
    <TextView
         android:id="@+id/t3"
         android:layout width="match parent"
         android:layout height="wrap content"
         android:text="Password:"
         android:textSize="20dp"
         android:layout marginLeft="28dp"
         android:layout_marginTop="10dp"
         />
    <EditText
         android:id="@+id/e2"
         android:layout width="300dp"
         android:layout_height="wrap_content"
         android:hint="Enter the Password"
         android:layout_marginLeft="24dp"
         android:layout_marginTop="10dp"/>
    <Button
         android:layout_width="200dp"
         android:layout height="wrap content"
         android:layout marginLeft="90dp"
         android:layout marginTop="24dp"
         android:background="@android:color/holo blue dark"
         android:text="SUBMIT"
         android:textColor="#fffafa"
         android:textSize="20dp"
         android:textStyle="bold" />
```

</LinearLayout>

#### **OUTPUT**



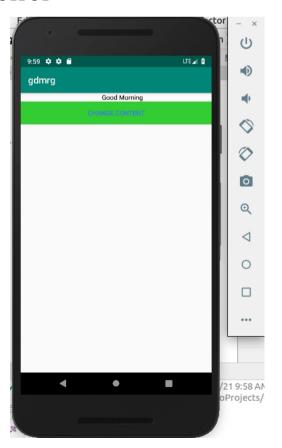
2.) Change the content in the text view on a button click.

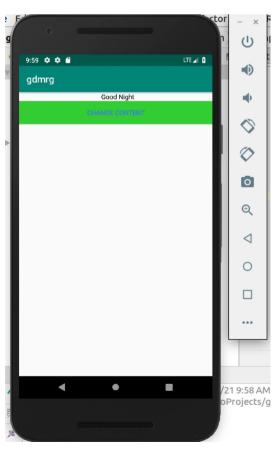
# xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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**



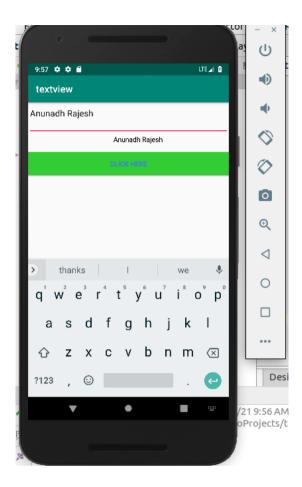


3.) Read a content from edit test and print it in text view.

#### Xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical">
    <EditText
         android:lavout width="match parent"
         android: layout height="wrap content"
         android:hint="Enter vour 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"/>
    < Rutton
         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.textview;
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 tview = (TextView)findViewById(R.id.tv1);
         String result = edit.getText().toString();
         tview.setText(result);
    }
}
```

# **OUTPUT**



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

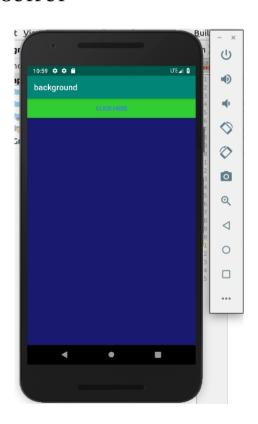
### Xml

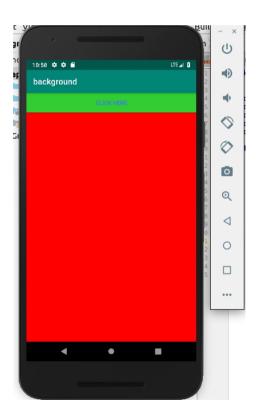
```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#191970"
    android:id="@+id/ll1">
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        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

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/relative1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
```

```
<EditText
    android:id="@+id/edt1"
    android:layout_width="match_parent"
    android:layout height="wrap content" />
<Button
    android:id="@+id/button1"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_alignEnd="@+id/button4"
    android:layout alignRight="@+id/button4"
    android:layout below="@+id/edt1"
    android:layout marginTop="94dp"
    android:text="1" />
<Button
    android:id="@+id/button2"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout alignTop="@+id/button1"
    android:layout toLeftOf="@+id/button3"
    android:layout toStartOf="@+id/button3"
    android:text="2" />
<Button
    android:id="@+id/button3"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap content"
    android:layout_alignTop="@+id/button2"
    android:layout centerHorizontal="true"
    android:text="3" />
<Button
    android:id="@+id/button4"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap content"
    android:layout height="wrap content"
    android:layout_below="@+id/button1"
    android:layout_toLeftOf="@+id/button2"
    android:text="4" />
<Button
    android:id="@+id/button5"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignBottom="@+id/button4"
    android:layout alignLeft="@+id/button2"
    android:layout_alignStart="@+id/button2"
    android:text="5" />
<Button
    android:id="@+id/button6"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_alignLeft="@+id/button3"
    android:layout_alignStart="@+id/button3"
    android:layout_below="@+id/button3"
    android:text="6" />
<Button
    android:id="@+id/button7"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
```

```
android:layout height="wrap content"
    android:layout below="@+id/button4"
    android:layout toLeftOf="@+id/button2"
    android:text="7" />
<Button
    android:id="@+id/button8"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap content"
    android:layout alignLeft="@+id/button5"
    android:layout alignStart="@+id/button5"
    android:layout below="@+id/button5"
    android:text="8" />
<Button
    android:id="@+id/button9"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout alignLeft="@+id/button6"
    android:layout_alignStart="@+id/button6"
    android:layout below="@+id/button6"
    android:text="9" />
<Button
    android:id="@+id/buttonadd"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap content"
    android:layout_alignEnd="@+id/edt1"
    android:layout alignRight="@+id/edt1"
    android:layout_alignTop="@+id/button3"
    android:layout marginLeft="46dp"
    android:layout marginStart="46dp"
    android:layout toRightOf="@+id/button3"
    android:text="+" />
<Button
    android:id="@+id/buttonsub"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_alignEnd="@+id/buttonadd"
    android:layout alignLeft="@+id/buttonadd"
    android:layout alignRight="@+id/buttonadd"
    android:layout alignStart="@+id/buttonadd"
    android:layout_below="@+id/buttonadd"
    android:text="-" />
<Button
    android:id="@+id/buttonmul"
    style="?android:attr/buttonStyleSmall"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout alignLeft="@+id/buttonsub"
    android:layout alignParentEnd="true"
    android:layout alignParentRight="true"
    android:layout alignStart="@+id/buttonsub"
    android:layout below="@+id/buttonsub"
    android:text="*" />
<Button
    android:id="@+id/button10"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout below="@+id/button7"
         android:layout toLeftOf="@+id/button2"
         android:text="." />
    <Button
         android:id="@+id/button0"
         style="?android:attr/buttonStyleSmall"
         android:layout_width="wrap_content"
         android:layout height="wrap content"
         android:layout alignLeft="@+id/button8"
         android:layout_alignStart="@+id/button8"
         android:layout below="@+id/button8"
         android:text="0" />
    <Button
         android:id="@+id/buttonC"
         style="?android:attr/buttonStyleSmall"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:layout_alignLeft="@+id/button9"
         android:layout alignStart="@+id/button9"
         android:layout below="@+id/button9"
         android:text="C" />
    <Button
         android:id="@+id/buttondiv"
         style="?android:attr/buttonStyleSmall"
         android:layout width="wrap content"
         android:layout_height="wrap_content"
         android:layout_alignEnd="@+id/buttonmul"
         android:layout_alignLeft="@+id/buttonmul"
         android:layout_alignRight="@+id/buttonmul"
         android:layout alignStart="@+id/buttonmul"
         android:layout below="@+id/buttonmul"
         android:text="/" />
    <Button
         android:id="@+id/buttonegl"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:layout alignEnd="@+id/buttondiv"
         android:layout alignLeft="@+id/button10"
         android:layout_alignRight="@+id/buttondiv"
         android:layout_alignStart="@+id/button10"
         android:layout below="@+id/button0"
         android:layout_marginTop="37dp"
         android:text="=" />
</RelativeLayout>
Java
package com.example.sjcet.calculator;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    Button button0, button1, button2, button3, button4, button5, button6,
             button7, button8, button9, buttonAdd, buttonSub, buttonDivision,
             buttonMul, button10, buttonC, buttonEqual;
    EditText crunchifyEditText;
    float mValueOne, mValueTwo;
    boolean crunchifyAddition, mSubtract, crunchifyMultiplication,
crunchifyDivision;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    button0 = (Button) findViewById(R.id.button0);
    button1 = (Button) findViewById(R.id.button1);
    button2 = (Button) findViewById(R.id.button2);
    button3 = (Button) findViewById(R.id.button3);
    button4 = (Button) findViewById(R.id.button4);
    button5 = (Button) findViewById(R.id.button5);
    button6 = (Button) findViewById(R.id.button6);
    button7 = (Button) findViewById(R.id.button7);
    button8 = (Button) findViewById(R.id.button8);
    button9 = (Button) findViewById(R.id.button9);
    button10 = (Button) findViewById(R.id.button10);
    buttonAdd = (Button) findViewById(R.id.buttonadd);
    buttonSub = (Button) findViewById(R.id.buttonsub);
    buttonMul = (Button) findViewById(R.id.buttonmul);
    buttonDivision = (Button) findViewById(R.id.buttondiv);
    buttonC = (Button) findViewById(R.id.buttonC);
    buttonEqual = (Button) findViewById(R.id.buttoneql);
    crunchifyEditText = (EditText) findViewById(R.id.edt1);
    button1.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "1");
    });
    button2.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "2");
    });
    button3.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "3");
    });
    button4.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "4");
    });
    button5.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "5");
    });
    button6.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             crunchifyEditText.setText(crunchifyEditText.getText() + "6");
    });
    button7.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
```

```
crunchifyEditText.setText(crunchifyEditText.getText() + "7");
             }
         });
         button8.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  crunchifyEditText.setText(crunchifyEditText.getText() + "8");
         });
         button9.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  crunchifyEditText.setText(crunchifyEditText.getText() + "9");
         }):
         button0.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  crunchifyEditText.setText(crunchifyEditText.getText() + "0");
         });
         buttonAdd.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  if (crunchifyEditText == null) {
                      crunchifyEditText.setText("");
                      mValueOne = Float.parseFloat(crunchifyEditText.getText() +
"");
                      crunchifyAddition = true;
                      crunchifyEditText.setText(null);
                  }
             }
         });
         buttonSub.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
                  mSubtract = true;
                  crunchifyEditText.setText(null);
         });
         buttonMul.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
                  crunchifyMultiplication = true;
                  crunchifyEditText.setText(null);
         });
         buttonDivision.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
                  crunchifyDivision = true;
                  crunchifyEditText.setText(null);
         });
         buttonEqual.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
```

```
mValueTwo = Float.parseFloat(crunchifyEditText.getText() + "");
                  if (crunchifyAddition == true) {
                      crunchifyEditText.setText(mValueOne + mValueTwo + "");
                      crunchifyAddition = false;
                  if (mSubtract == true) {
                      crunchifyEditText.setText(mValueOne - mValueTwo + "");
                      mSubtract = false;
                  if (crunchifyMultiplication == true) {
                      crunchifyEditText.setText(mValueOne * mValueTwo + "");
                      crunchifyMultiplication = false;
                  if (crunchifyDivision == true) {
                      crunchifyEditText.setText(mValueOne / mValueTwo + "");
                      crunchifyDivision = false;
                  }
             }
         });
         buttonC.setOnClickListener(new View.OnClickListener() {
             public void onClick(View v) {
                  crunchifyEditText.setText("");
         });
         button10.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  crunchifyEditText.setText(crunchifyEditText.getText() + ".");
             }
         });
    }
}
```

