CYCLE -1

1. Design a login page

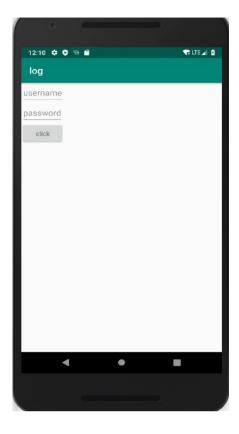
code

```
<LinearLayout android:layout_height="match_parent"</pre>
    android:layout_width="match_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <EditText
         android:hint="username"
         android:layout width="wrap content"
         android:layout height="wrap content" />
    <EditText
         android:hint="password"
         android:layout width="wrap content"
         android:layout height="wrap content" />
    <Button
         android:hint="click"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:onClick="click1"/>
</LinearLayout>
```

Java code

```
package com.example.sjcet.log;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView tv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

Output



2. Change the content in the textview on a button click.

Code

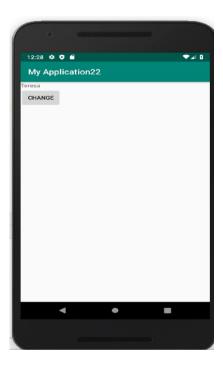
```
<LinearLayout android:layout width="match parent"</pre>
    android:layout height="match parent"
    android:orientation="vertical"
    android:layout_gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
         android:id="@+id/tv"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:text="Milu"/>
    <Button
         android:id="@+id/btn1"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="Change"
         android:onClick="change"/>
</LinearLayout>
```

Java Code

```
package com.example.sjcet.changetext;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
```

```
public class MainActivity extends AppCompatActivity {
   TextView tv;
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv=findViewById(R.id.tv);
   }
   public void change(View view) {
        tv.setText("Essa");
   }
}
```

Output



Read a content from EditText and print it in a TextView.

Code

```
<LinearLayout android:layout_height="match_parent" android:layout_width="match_parent"</pre>
    android:orientation="vertical" android:gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:id="@+id/tv1"
         android:text="Text1"/>
    <EditText
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:id="@+id/et1"
         android:hint="Enter the content"/>
    <Button
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:id="@+id/b1"
```

Java code

```
package com.example.sjcet.edittext;
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 {
    TextView tv1;
    EditText et1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity_main);
    }
    public void changeLabelContent(View view) {
         tv1=(TextView)findViewById(R.id.tv1);
         et1=(EditText)findViewById(R.id.et1);
         tv1.setText(et1.getText());
    }
}
```

<u>Output</u>



4. Change the backgroud color on a button click.

Xml code

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_gravity="center">
        <Button
            android:layout_width="match_parent"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:onClick="click"
            android:text="CHANGE" />
</LinearLayout>

java code
package com.example.sjcet.color;
import android.widget.Button;
import android.view.View;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
```

import android.widget.Button; import android.view.View; import android.support.v7.app.AppCompatActivity; import android.os.Bundle; public class MainActivity extends AppCompatActivity { View v; Button bt; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity main); v= this.getWindow().getDecorView(); bt=(Button) findViewById(R.id.bt); public void click(View view) { v.setBackgroundResource(android.R.color.holo_orange_light); }



5.Create a sample calculator.

Xml code

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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:lavout 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 code
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 crunchifvAddition. mSubtract. crunchifvMultiplication. crunchifvDivision:
    @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) findViewBvId(R.id.buttoneal);
         crunchifvEditText = (EditText) findViewBvId(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() {
    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("");
         } else {
             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() + ".");
    });
}
```

<u>output</u>

}

