MAD - CYCLE 1

1. Design Login page

Code:XML

```
<LinearLayout
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
         android:id="@+id/tv1"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="USER NAME"/>
    <EditText
         android:id="@+id/et1"
         android:layout width="wrap content"
         android:layout_height="wrap_content"
         android:hint="Enter Your Username"/>
    <TextView
         android:id="@+id/tv2"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:text="PASSWORD"/>
    <EditText
         android:id="@+id/et2"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:hint="Enter Your Password"/>
    <Button
         android:id="@+id/btn1"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:text="LOGIN"
         android:onClick="login"/>
    <Button
         android:id="@+id/btn2"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:text="CANCEL"
</LinearLayout>
Code:Java
package com.example.sjcet.designloginpage;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity main);
    public void Submit(View view) {
```

Output:



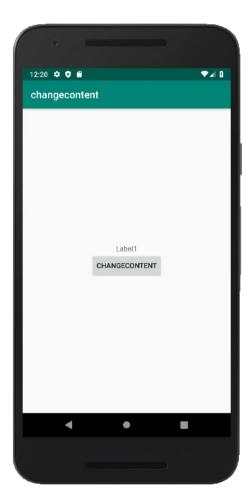
2. Change the content in the textview on a button click.

```
Code:XML
```

```
<LinearLayout android:layout_height="match_parent"</pre>
      android:layout width="match parent" 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="Label1"/>
    <Button
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:id="@+id/b1"
         android:text="ChangeContent"
         android:onClick="Chnage"/>
</LinearLayout>
      Code: JAVA
package com.example.sjcet.changecontent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
TextView tv1;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
}
public void Chnage(View view) {
    tv1=(TextView) findViewById(R.id.tv1);
    tv1.setText("New Content");
}
```

Output:





3. Read a content from edittext and print it in a textview.

Code:XML

```
<LinearLayout
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    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</pre>
```

```
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"
         android:text="ChangeText"
         android:onClick="changeLabelContent"/>
</LinearLayout>
code: JAVA
package com.example.sjcet.printcontentintextview;
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());
```

Output:

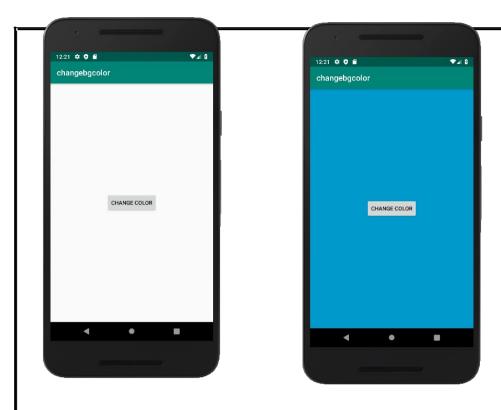




4. Change the background color on a button click.

```
Code:XML
```

```
<LinearLavout
    android:layout_height="match_parent"
    android:layout width="match parent"
    android:orientation="vertical"
    android:gravity="center"
    android:id="@+id/l1"
    xmlns:android="http://schemas.android.com/apk/res/android" >
    <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:id="@+id/b1"
         android:text="Change Color"
         android:onClick="Change"/>
</LinearLayout>
      Code:Java
package com.example.sjcet.changebgcolor;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
public class MainActivity extends AppCompatActivity {
    Button btn;
    View v;
    boolean isColor = true;
    LinearLayout linearLayout;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity main);
         v = this.getWindow().getDecorView();
         btn = findViewById(R.id.b1);
         linearLayout = findViewById(R.id.l1);
         btn.setOnClickListener(new View.OnClickListener() {
             @Override
             public void onClick(View v) {
                  linearLayout.setBackgroundResource(android.R.color.holo_blue_dark);
             }
        });
    public void ChangeColor(View view) {
         linearLayout.setBackgroundResource(R.color.colorPrimary);
    }
Output:
```



5. Create a sample Calculator.

Code:XML

```
<RelativeLayout android:layout height="match parent"</pre>
    android:layout width="match parent"
    android:orientation="vertical"
    android:gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <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 alignTop="@+id/button3"
    android:layout alignEnd="@+id/edt1"
    android:layout alignRight="@+id/edt1"
    android:layout marginStart="46dp"
    android:layout marginLeft="3dp"
    android:layout_marginTop="5dp"
    android:layout marginEnd="43dp"
    android:layout marginRight="43dp"
    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 alignEnd="@+id/buttonsub"
    android:layout alignLeft="@+id/buttonsub"
    android:layout_alignRight="@+id/buttonsub"
    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>
      Code: Java
      package com.example.sjcet.samplecalculator;
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 = findViewById(R.id.button0);
         button1 = findViewById(R.id.button1);
         button2 = findViewById(R.id.button2);
         button3 = findViewById(R.id.button3);
         button4 = findViewById(R.id.button4);
         button5 = findViewById(R.id.button5);
         button6 = findViewById(R.id.button6);
         button7 = findViewById(R.id.button7);
         button8 = findViewById(R.id.button8);
         button9 = findViewById(R.id.button9);
         button10 = findViewById(R.id.button10);
         buttonAdd =findViewById(R.id.buttonadd);
         buttonSub = findViewById(R.id.buttonsub);
         buttonMul = findViewById(R.id.buttonmul);
         buttonDivision = findViewById(R.id.buttondiv);
         buttonC =findViewById(R.id.buttonC);
         buttonEqual =findViewById(R.id.buttoneql);
         crunchifyEditText =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() {
    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("");
         } else {
             mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
```

```
crunchifyAddition = true;
             crunchifyEditText.setText(null);
         }
    }
});
buttonSub.setOnClickListener(new View.OnClickListener() {
    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() {
    @Override
    public void onClick(View v) {
         crunchifyEditText.setText("");
});
button10.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
         crunchifyEditText.setText(crunchifyEditText.getText() + ".");
    }
});
```

}

}

Output:







