

1. DESIGNA LOGIN PAGE

PROGRAM

activity_main.xml

```
<LinearLayout
  android:layout_height="match_parent"
  android:layout_width="match_parent"
  android:orientation="vertical"
  xmlns:android="http://schemas.android.com/apk/res/android">
   <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="UserName"/>
  <EditText
       android:layout_width="match_parent"
       android:layout_height="wrap_content"
       android:hint="Password"/>
  <Button
       android:layout width="match parent"
       android: layout height="wrap content"
       android:text="Login"/>
  <Button
       android:layout width="match parent"
       android:layout height="wrap content"
       android:text="Cancel"/>
</LinearLayout>
```



2.CHANGE CONTENT IN THE TEXT VIEW ON ABUTTON CLICK

PROGRAM

activity_main.xml

```
<LinearLayout
  android:layout height="match parent"
  android:layout width="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="My Name is"
       android:id="@+id/tv1"
       android:textSize="100px"/>
  <Button
       android:layout width="match parent"
       android:layout height="wrap content"
       android:id="@+id/b1"
       android:text="Change"
       android:textSize="50px"
       android:onClick="click"/>
</LinearLayout>
MainActivity.java
 package com.example.sjcet.changecontent;
 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 tv = (TextView) findViewById(R.id.tv1);
       tv.setText("Abhirami M M");
  }
 }
```





3. READ A VALUE FROM EDIT TEXT AND PRINT IT IN A TEXT VIEW

PROGRAM

activity_main.xml

```
<LinearLayout
   android:layout width="match parent"
   android: layout height="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/tv"
        android:text=" welcome"/>
   <FditText
       android:layout width="wrap content"
        android:layout height="wrap content"
        android:id="@+id/et"
       android:hint="Enter your name"/>
   <Button
       android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btn"
       android:text="Change TextView"
       android:onClick="click"/>
</LinearLayout>
```

MainActivity.java

```
package com.example.sjcet.readcontent;
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 tv:
  EditText et:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
  public void click(View view) {
       tv=findViewById(R.id.tv);
       et=findViewById(R.id.et);
       tv.setText(et.getText());
}
```





4.CHANGE THE BAGROUND COLOR ON A BUTTON CLICK

PROGRAM

activity_main.xml

```
<LinearLayout android:id="@+id/l1"
  android:layout_height="match_parent"
  android:layout_width="match_parent"
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools">
  <Button
      android:id="@+id/button"
      android:layout_width="250dp"
      android:layout_height="wrap_content"
      android:padding="20dp"
      android:layout_marginLeft="70dp"
      android:layout_marginTop="190dp"
      android:text="Click here to change background color"/>
  </LinearLayout>
```

MainActivity.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 {
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       Button button1;
       final LinearLayout Layout;
       Layout = findViewById(R.id.l1);
       button1=findViewById(R.id.button);
       button1.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
                Layout.setBackgroundResource(R.color.colorAccent);
           }
      });
  }
}
```





5. CREATE A SMPLE CALCULATOR PROGRAM

PROGRAM

activity_main.xml

```
<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" />
  <Rutton
       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/buttoneql"
       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>
```

```
MainActivity.java
```

```
package com.example.sjcet.calculator;
 import android.support.v7.app.AppCompatActivity;
 import android.os.Bundle;
 import android.view.View;
 import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
button0,button1,button2,button3,button4,button5,button6,button7,button8,button9,button10
,buttonAdd,buttonSub,
             buttonDivision,buttonMul,buttonEqual,buttonC;
    EditText crunchifyEditText;
    float mValueOne.mValueTwo;
    boolean crunchifyAddition,mSubstract,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)findViewBvId(R.id.button10);
         buttonAdd=(Button)findViewBvId(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("");
        } 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() + "");
        mSubstract = true:
        crunchifyEditText.setText(null);
    }
});
buttonMul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
```

```
mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
                 crunchifvMultiplication = 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 (mSubstract == true) {
                      crunchifyEditText.setText(mValueOne - mValueTwo + "");
                      mSubstract = 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() + ".");
             }
        });
    }
}
```





