

MAD LAB CYCLE1

1.Design a login page

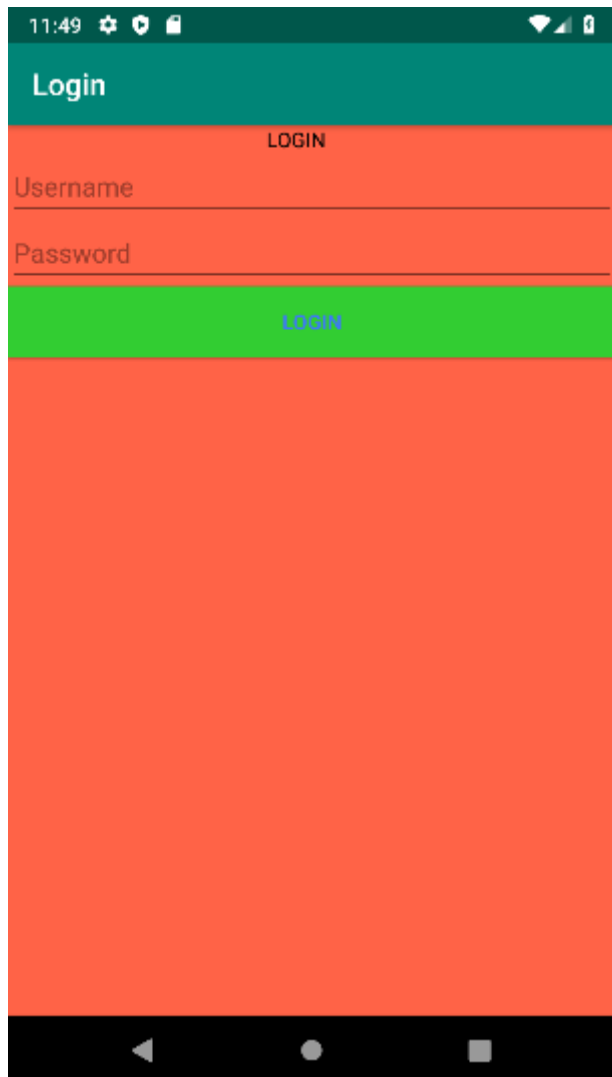
activity_main.xml

```
<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>
```

MainActivity.java

```
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);
    }
}
```

OUTPUT



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

activity_main.xml

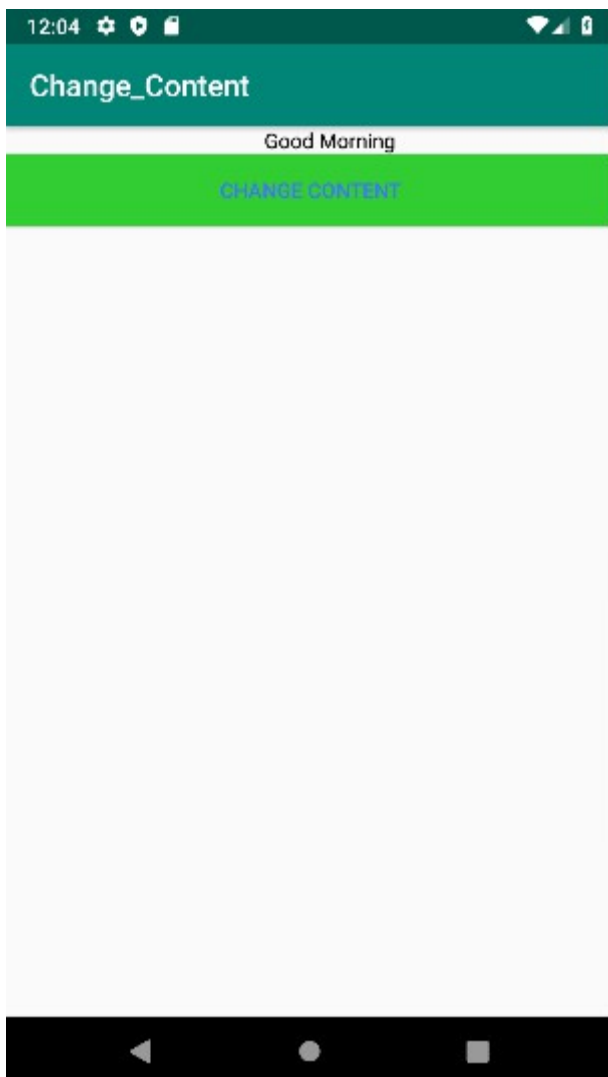
```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Good Morning"
        android:textColor="#000000"
        android:layout_marginLeft="175dp"
        android:id="@+id/tv1"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Change Content"
        android:background="#32cd32"
```

```
        android:textColor="#3f76ff"
        android:id="@+id/btn1"
        android:onClick="Click"/>
</LinearLayout>
```

MainActivity.java

```
package com.example.sjcet.change_content;
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 edittext and print it in a textview

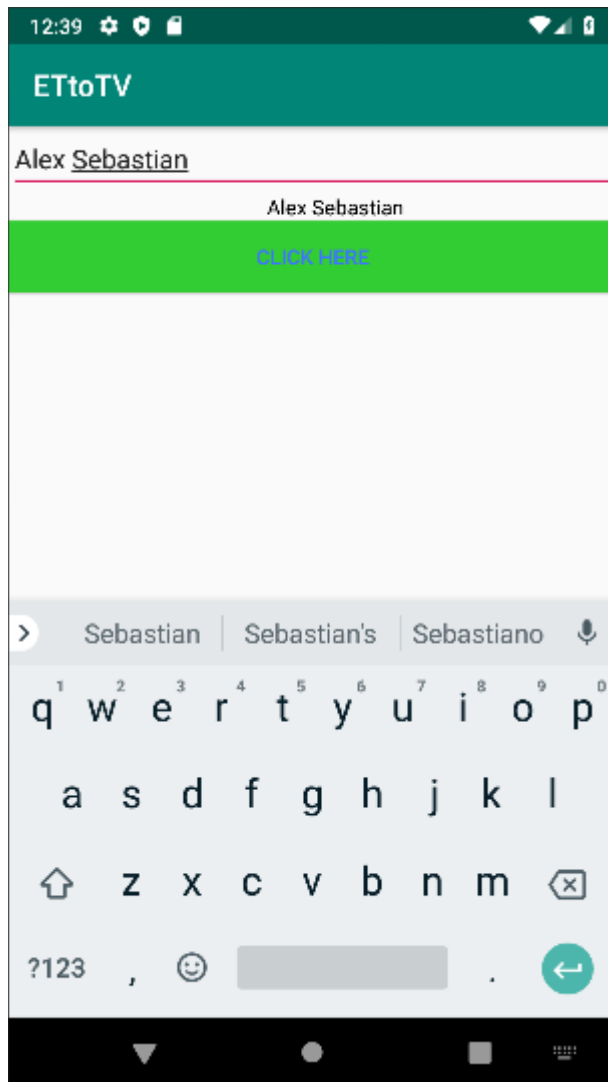
activity_main.xml

```
<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>
```

MainActivity.java

```
package com.example.sjcet.ettotv;
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 color on a button click

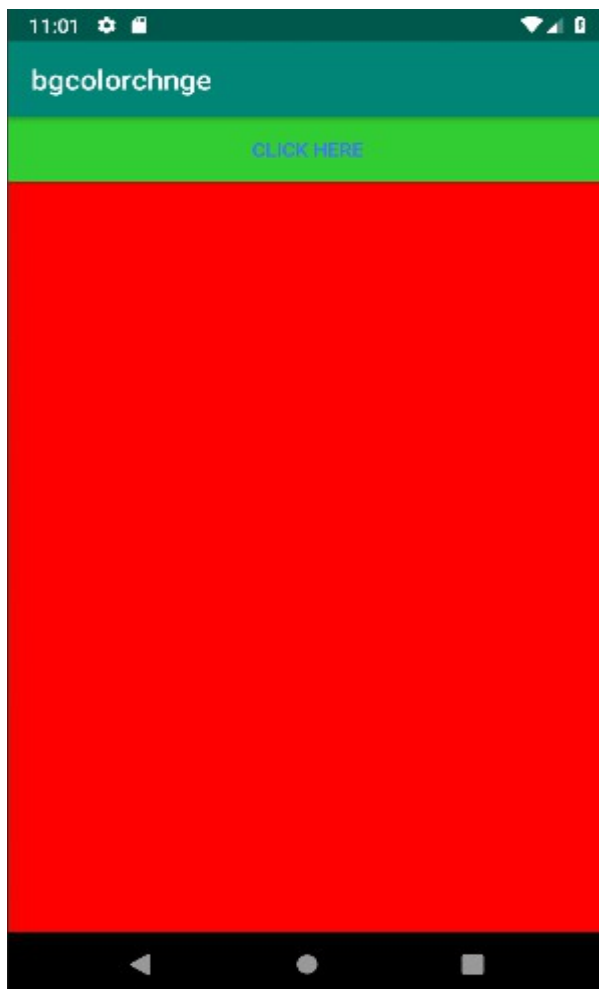
activity_main.xml

```
<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>
```

MainActivity.java

```
package com.example.sjcet.bgcolorchnge;
import android.graphics.Color;
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 {
    @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.l11);
        layout1.setBackgroundColor(Color.RED);
    }
}
```

OUTPUT



5.Create a simple calculator

activity_main.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:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="CALCULATOR"
        android:textSize="36dp"
        android:textStyle="bold"
        android:layout_marginTop="10dp"
        android:layout_marginLeft="70dp"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/E1"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/E2"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text=""
        android:id="@+id/E3"/>
    <Button
        android:id="@+id/B1"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="18dp"
        android:layout_marginLeft="20dp"
        android:text="+"
        android:textSize="30dp"
        android:textStyle="bold"/>
    <Button
        android:id="@+id/B2"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="-60dp"
        android:layout_marginLeft="140dp"
        android:text="-"
        android:textSize="30dp"
        android:textStyle="bold"/>
    <Button
        android:id="@+id/B3"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="-60dp"
        android:layout_marginLeft="260dp"
        android:text="*"
        android:textSize="30dp"
        android:textStyle="bold"/>
    <Button
        android:id="@+id/B4"
        android:layout_width="80dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="18dp"
        android:layout_marginLeft="20dp"
```

```

        android:text="/"
        android:textSize="30dp"
        android:textStyle="bold"/>
<Button
    android:id="@+id/B5"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="-60dp"
    android:layout_marginLeft="140dp"
    android:text="="
    android:textSize="30dp"
    android:textStyle="bold"/>
</LinearLayout>

```

MainActivity.java

```

package com.example.sjcet.cal;
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 {
    Button b1,b2,b3,b4,b5,b6;
    EditText e1,e2,e3;
    double ans;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1 = (Button) findViewById(R.id.B1);
        b2 = (Button) findViewById(R.id.B2);
        b3 = (Button) findViewById(R.id.B3);
        b4 = (Button) findViewById(R.id.B4);
        b5 = (Button) findViewById(R.id.B5);
        e1 = (EditText) findViewById(R.id.E1);
        e2 = (EditText) findViewById(R.id.E2);
        e3 = (EditText) findViewById(R.id.E3);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double a=Double.parseDouble(e1.getText().toString());
                double b=Double.parseDouble(e2.getText().toString());
                ans=a+b;
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double a=Double.parseDouble(e1.getText().toString());
                double b=Double.parseDouble(e2.getText().toString());
                ans=a-b;
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double a=Double.parseDouble(e1.getText().toString());
                double b=Double.parseDouble(e2.getText().toString());
                ans=a*b;
            }
        });
    }
}

```



```

        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double a=Double.parseDouble(e1.getText().toString());
                double b=Double.parseDouble(e2.getText().toString());
                if(b!=0)
                    ans=a/b;
            }
        });
        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String ans1=String.valueOf(ans);
                e3.setText(ans1);
                ans=0;
            }
        });
    }
}

```

OUTPUT

