

## LAB CYCLE - 1

### 1.Design a login page.

**LinearLayout android:layout\_width="match\_parent"**

**xmlns:android="http://schemas.android.com/apk/res/android"**

**android:layout\_height="match\_parent"**

**android:orientation="vertical">**

**<TextView**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:textAlignment="center"**

**android:text="LOGIN"**

**android:textStyle="bold"**

**android:layout\_marginTop="100dp"**

**/>**

**<TextView**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:textAlignment="center"**

**android:text="Username"**

**android:textStyle="italic"**

**android:layout\_marginTop="20dp"**

**/>**

**<EditText**

**android:layout\_width="303dp"**

**android:layout\_height="32dp"**

**android:layout\_marginLeft="30dp"**

**/>**

**<TextView**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:textAlignment="center"**

**android:text="password"**

**android:layout\_marginTop="20dp"**

**/>**

**<EditText**

**android:layout\_width="315dp"**

**android:layout\_height="36dp"**

**android:layout\_marginLeft="30dp" />**

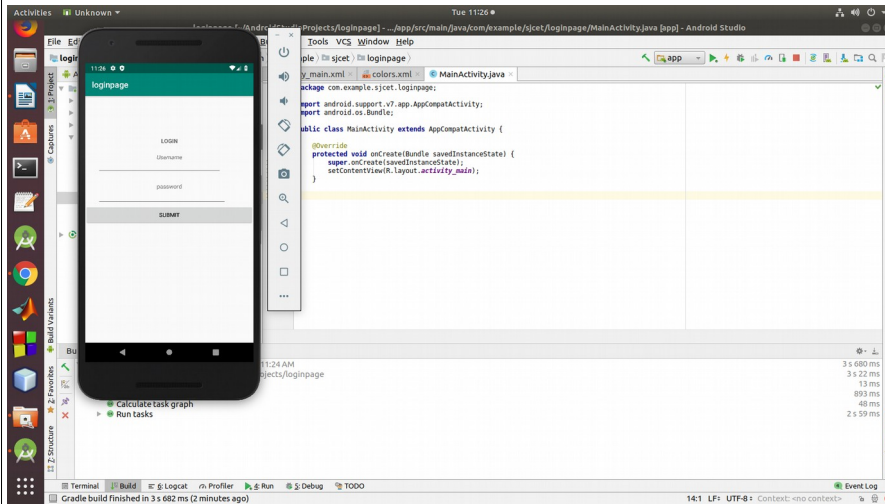
**<Button**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="submit"/>**

**</LinearLayout>**



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

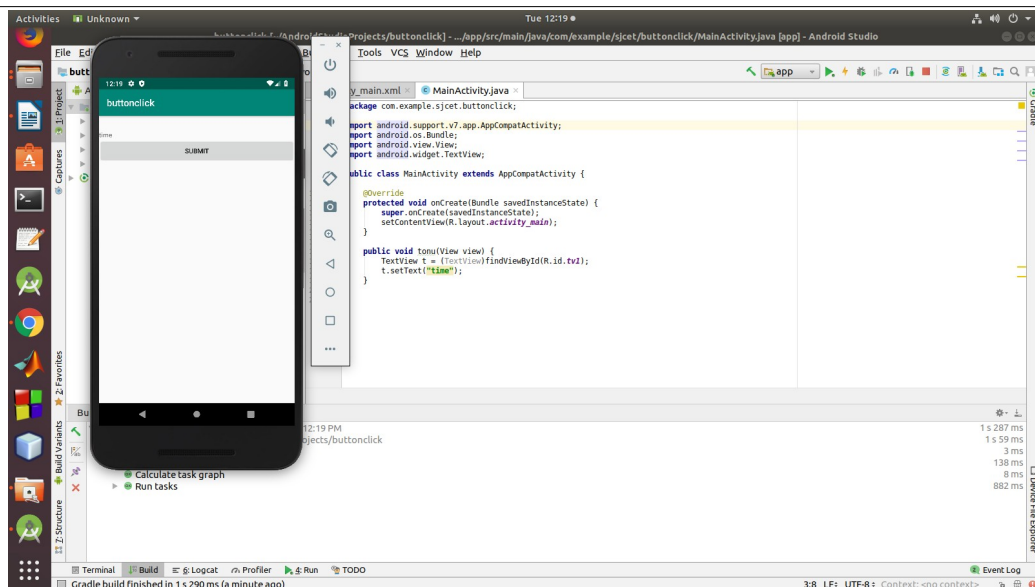
```
<LinearLayout android:layout_width="match_parent"
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_height="match_parent"
android:orientation="vertical">
```

```
<TextView
    android:id="@+id/tv1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:text="hello" />
```

```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="submit"
    android:onClick="tonu" />
```

```
</LinearLayout>package com.example.sjcet.buttonclick;
```

```
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 tonu(View view) {
        TextView t = (TextView)findViewById(R.id.tv1);
        t.setText("time");
    }
}
```



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

**<LinearLayout android:layout\_width="match\_parent"**

**xmlns:android="http://schemas.android.com/apk/res/android"**  
**android:layout\_height="match\_parent" android:orientation="vertical">**

**<EditText**

**android:id="@+id/e1"**  
**android:layout\_width="match\_parent"**  
**android:layout\_height="78dp"**  
**android:layout\_marginTop="40dp"**  
**android:layout\_marginLeft="30dp"**  
**android:layout\_marginRight="40dp"**  
**android:text="enter the text" />**

**<Button**

**android:id="@+id/b1"**  
**android:layout\_width="match\_parent"**  
**android:layout\_height="wrap\_content"**  
**android:layout\_marginLeft="30dp"**  
**android:layout\_marginTop="60dp"**  
**android:layout\_marginRight="40dp"**  
**android:text="click me"**  
**android:onClick="click" />**

**<TextView**

**android:id="@+id/t1"**  
**android:layout\_width="match\_parent"**  
**android:layout\_height="70dp"**  
**android:layout\_marginTop="60dp"**  
**android:layout\_marginLeft="30dp"**  
**android:layout\_marginRight="40dp"**  
**/>**

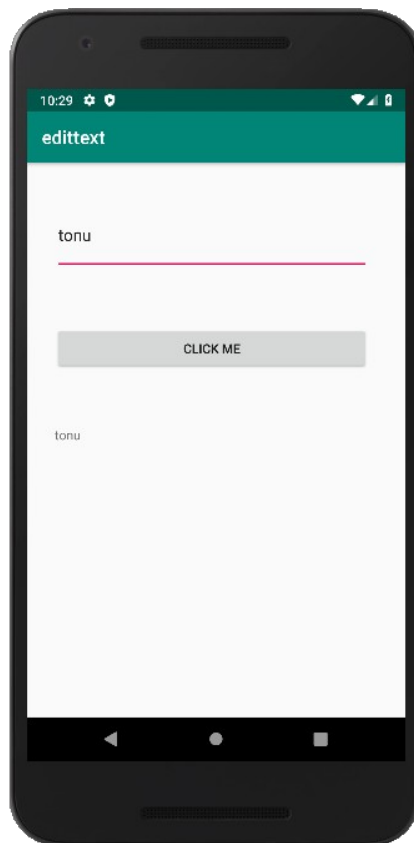
**</LinearLayout>**

**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 {
    @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.e1);
        TextView tview = (TextView)findViewById(R.id.t1);
        String result = edit.getText().toString();
        tview.setText(result);
    }
}

```



#### 4.Change the backgroud color on a button click

```

LinearLayout android:layout_width="match_parent"
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_height="match_parent"
android:id="@+id/l1">
<Button

```

```

        android:id="@+id/b1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="click me"
        android:onClick="click"/>
</LinearLayout>

package com.example.sjcet.bgcolor;
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 layout = (LinearLayout) findViewById(R.id.l1);
        layout.setBackgroundResource(R.color.colorPrimary);
    }
}

```



## 5. Create a sample calculator

### CODE :

```
<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:text="Enter The first Number:"
        android:id="@+id/ED1"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter The Second Number:"
        android:id="@+id/ED2"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text=""
        android:id="@+id/ED3"/>
    <Button
        android:id="@+id/BT1"
        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/BT2"
        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/BT3"
        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/BT4"
    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/BT5"
    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"/>

```

#### JAVA CODE

```

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 {
    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.BT1);
        b2 = (Button) findViewById(R.id.BT2);
        b3 = (Button) findViewById(R.id.BT3);
        b4 = (Button) findViewById(R.id.BT4);
        b5 = (Button) findViewById(R.id.BT5);
        e1 = (EditText) findViewById(R.id.ED1);
        e2 = (EditText) findViewById(R.id.ED2);
        e3 = (EditText) findViewById(R.id.ED3);
    }
}

```

```

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 :**



