MOBILE APPLICATION PROGRAMMING LAB PRACTICAL-2

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ROLL NO: 69

BATCH: A4

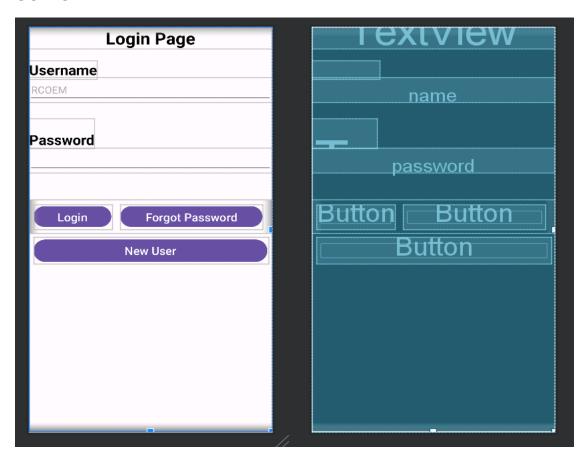
AIM: Design the User Interface for the Login page using the following Layout.

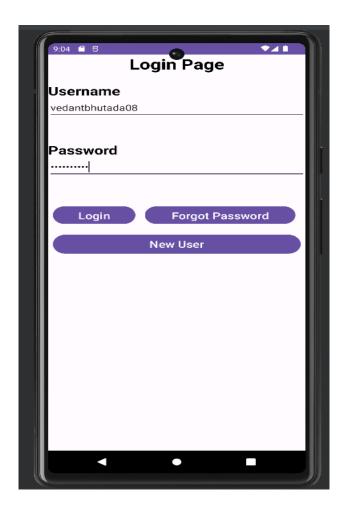
- 1. Nested Linear Layout
- 2. Relative Layout
- 3. Constraint Layout

NESTED LINEAR LAYOUT

```
android:textColor="@color/black"
<EditText
<LinearLayout
        android:text="Login"
        android:textSize="20dp" />
```

OUTPUT





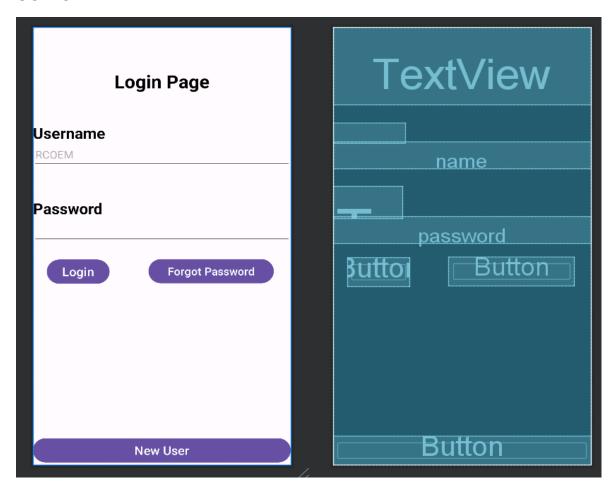
RELATIVE LAYOUT

```
<?xml version="1.0" encoding="utf-8"?>
<android.widget.RelativeLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout_width="match_parent"
   android:layout_height="match_parent">
   <TextView
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="130dp"
        android:text="Login Page"
        android:textSize="30dp"
        android:textStyle="bold"
        android:textStyle="bold"
        android:textAlignment="center"
        android:paddingTop="70dp"
        android:paddingBottom="20dp"
        />
   <TextView
        android:layout_below="@id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:text="Username"</pre>
```

```
<EditText
<TextView
    android:textSize="20dp" />
```

```
android:text="New User"
  android:textSize="20dp"
  android:layout_alignParentBottom="true"
  android:id="@+id/btn3"
  />
</android.widget.RelativeLayout>
```

OUTPUT





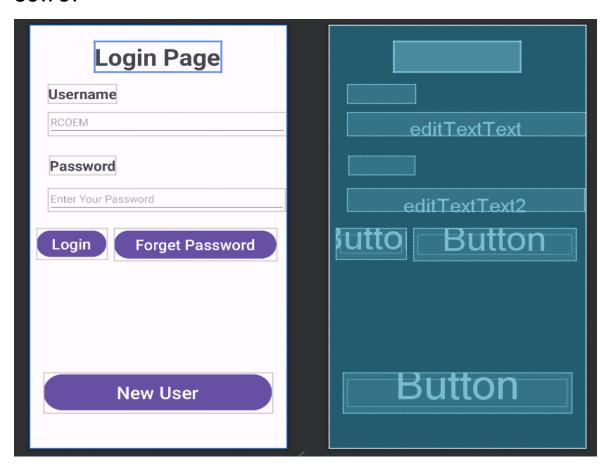
CONSTRAINT LAYOUT

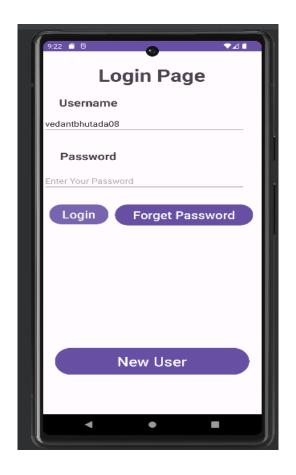
```
android:textSize="40dp"
<EditText
   android:ems="10"
   android:inputType="text"
<TextView
   android:id="@+id/textView2"
   android:text="Username"
   app:layout constraintBottom toTopOf="@+id/editTextText"
   app:layout constraintEnd toEndOf="parent"
   app:layout constraintStart toStartOf="parent"
   app:layout constraintTop toBottomOf="@+id/textView"
   app:layout_constraintVertical bias="0.6" />
<TextView
   app:layout_constraintEnd_toEndOf="parent"
<EditText
```

```
android:id="@+id/editTextText2"
android:layout_width="380dp"
android:layout_height="40dp"
android:layout_marginTop="24dp"
android:ems="10"
android:inputType="text"
app:layout_constraintTop_toBottomOf="@+id/textView3"
tools:layout_editor_absoluteX="30dp" />

<Button
android:id="@+id/button"
android:layout_width="366dp"
android:layout_height="70dp"
android:text="New User"
android:textSize="30dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintTop_toBottomOf="@+id/button2"
app:layout_constraintVertical_bias="0.759" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT





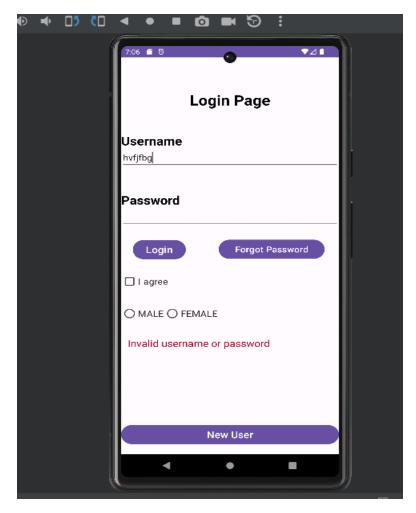
JAVA CODE:

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.app.Activity;
import android.os.Bundle;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.EditText;
import android.widget.EditText;
import android.widget.EditText;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.RadioGroup;
import android.widget.RadioGroup;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    private EditText usernameEditText, passwordEditText;
    private Button loginButton, forgotPasswordButton, newUserTextView;
    private RadioGroup radioGroup;
    private RadioGroup radioGroup;
    private RadioButton radioButton1, radioButton2;
    private TextView messageTextView;

@Override
    protected void onCreate(Bundle savedInstanceState) {
```

```
newUserTextView = findViewById(R.id.btn3);
messageTextView = findViewById(R.id.messageTextView);
newUserTextView.setOnClickListener(new View.OnClickListener() {
```



CONCLUSION: In this practical we successfully implemented different Layout Designs in Android Studio.