### **PRACTICAL: 5**

#### AIM:

Create a login application with following features:

- 1. Successful Login message in TextView with Green background if Username & password is correct
- 2. Failure message in TextView with Red background if Username or password is incorrect.
- 3. Disable Login Button after three wrong login attempts.
- 4. Close application if user selects Cancel Button.

#### **SOURCE CODE:**

#### // MainActivity.java

package com.example.practical5;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.LinearLayout;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Button Login;

Button Cancel;

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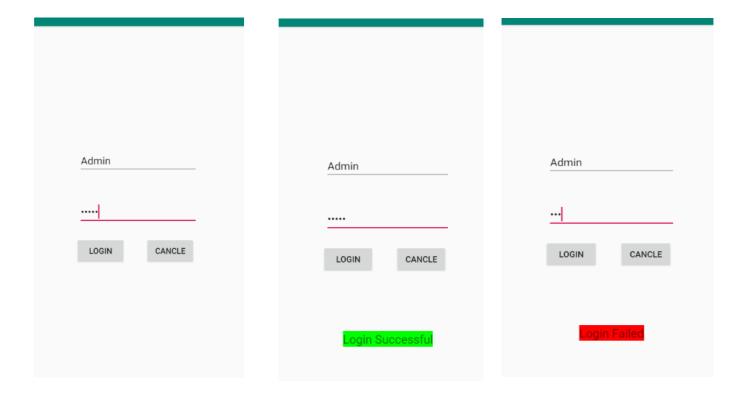
```
EditText UserName:
  EditText Password:
  TextView OutPut;
  int Count =3;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
  Login = (Button)findViewById(R.id.Login);
  Cancel = (Button)findViewById(R.id.Cancel);
  UserName = (EditText)findViewById(R.id.UserName);
  Password = (EditText)findViewById(R.id.Password);
  OutPut = (TextView)findViewById(R.id.OutPut);
  Login.setOnClickListener(new View.OnClickListener() {
     @Override
    public void onClick(View v) {
       if (UserName.getText().toString().equals("Admin") &&
Password.getText().toString().equals("admin")) {
         OutPut.setText("Login Successful");
         OutPut.setBackgroundColor(Color.GREEN);
       } else {
         if (Count > 0) {
            OutPut.setText("Login Failed");
            OutPut.setBackgroundColor(Color.RED);
            Count--:
            Toast.makeText(getApplicationContext(), Integer.toString(Count) + " Attempts
Remaining", Toast.LENGTH_LONG).show();
         } else {
            Login.setEnabled(false);
       }
     }
  });
  Cancel.setOnClickListener(new View.OnClickListener() {
     @Override
    public void onClick(View v) {
       finish();
       System.exit(0);
     }});}}
// activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<\! and roidx. constraint layout. widget. Constraint Layout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/Layout1" android:layout_width="match_parent"
  android:layout_height="match_parent"
```

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```
tools:context=".MainActivity">
  <EditText android:id="@+id/UserName"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout marginTop="212dp"
    android:ems="10"
     android:hint="User Name" android:inputType="textPersonName"
     app:layout constraintEnd toEndOf="parent"
     app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
 <EditText
    android:id="@+id/Password"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
     android:layout_marginTop="44dp"
    android:ems="10" android:hint="Password"
    android:inputType="textPassword"
     app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent"
     app:layout_constraintTop_toBottomOf="@+id/UserName"/>
  <Button
     android:id="@+id/Login" android:layout_width="wrap_content"
    android:layout_height="wrap_content"
     android:layout_marginBottom="264dp" android:text="Login"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/Cancel"
    app:layout_constraintHorizontal_bias="0.712"
    app:layout_constraintStart_toStartOf="parent" />
  <Button
  android:id="@+id/Cancel" android:layout_width="wrap_content"
  android:layout_height="wrap_content" android:layout_marginEnd="96dp"
  android:layout_marginRight="96dp" android:layout_marginBottom="264dp" android:text="Candle"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent" />
<TextView android:id="@+id/OutPut"
  android:layout_width="wrap_content" android:layout_height="wrap_content"
  android:layout_marginBottom="140dp" android:textSize="20sp"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

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# **OUTPUT:**



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## **LATEST APPLICATIONS:**

Every application which contains data of the user must have the login page In the application. As example Gmail login, facebook login, Instagram login, CHARUSAT login etc.

### **LEARNING OUTCOME:**

Login page is necessary in most of the application now days for security reasons. So by using login page in our application we can make our application more secure and user friendly.

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