

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;
```

```

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"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"

```

```

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" />

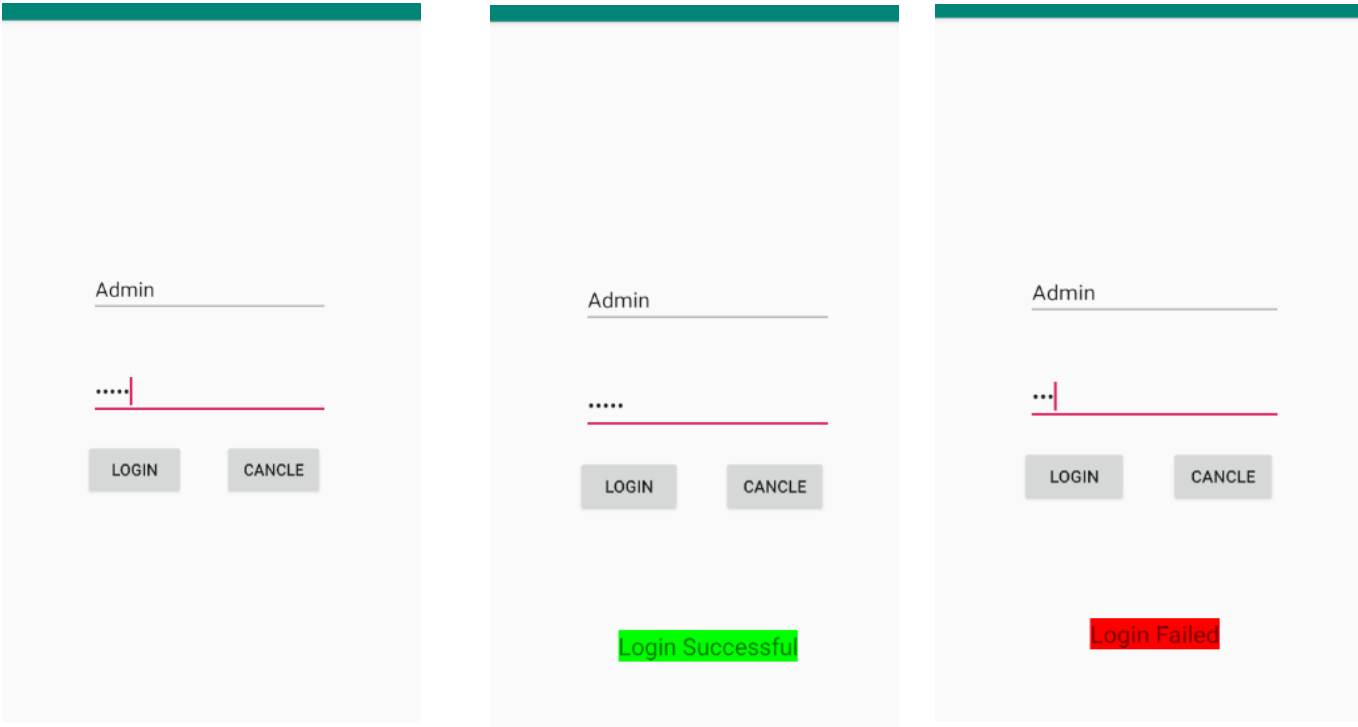
<Button
    android:id="@+id/Login" android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="264dp" android:text="Login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/Cancel"
    app:layout_constraintHorizontal_bias="0.712"
    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>

```

OUTPUT:



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.