

## PRACTICAL: 5

**AIM: Create a login application with the 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 log in attempts.**
- 4. Close application if the user selects Cancel Button.**

**Source Code:**

**Java File/s:**

**MainActivity.java**

```
package com.example.login;

import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.EditText;
import android.widget.TextView;
import android.os.Bundle;
import android.widget.Toast;
import android.graphics.Color;

public class MainActivity extends AppCompatActivity {
    EditText username,passwd,name;
    Button b1,b2;
    ImageButton iB;
    TextView tx1;
    int counter = 3;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1 = (Button)findViewById(R.id.login);
        b1.setVisibility(View.VISIBLE);
        iB=(ImageButton)findViewById(R.id.iB);

        username=(EditText) findViewById(R.id.username);
        passwd=(EditText) findViewById(R.id.password);

        iB.setOnClickListener(new View.OnClickListener() {
            @Override
```

```

        public void onClick(View v) {
            Toast.makeText(getApplicationContext(),"Password contains atleast 6 character including digits",Toast.LENGTH_LONG).show();
        }
    });
    tx1 = (TextView) findViewById(R.id.textView3);
    tx1.setVisibility(View.GONE);
    b1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            if(username.getText().toString().equals("anushree") &&
                passwd.getText().toString().equals("anushree@29")) {
                Toast.makeText(getApplicationContext(),
                    "Redirecting...",Toast.LENGTH_SHORT).show();
            }else{
                Toast.makeText(getApplicationContext(),"WrongCredent-
                ials",Toast.LENGTH_SHORT).show();
                tx1.setVisibility(View.VISIBLE);
                tx1.setBackgroundColor(Color.RED);
                counter--;
                tx1.setText(Integer.toString(counter));
                if (counter == 0) {
                    b1.setEnabled(false);
                }
            }
        }
    });
}
}

```

**Layout File/s:**  
**activity\_main.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayoutxmlns: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/container"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#F5C3C3">

    <EditText
        android:id="@+id/username"
        android:layout_width="296dp"
        android:layout_height="46dp"
        android:layout_marginStart="24dp"
        android:layout_marginTop="128dp"
        android:layout_marginEnd="24dp"

```

```
android:hint="username"
```

```
android:inputType="textEmailAddress"  
android:selectAllOnFocus="true"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintHorizontal_bias="0.0"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
```

```
android:id="@+id/password"  
android:layout_width="296dp"  
android:layout_height="46dp"  
android:layout_marginStart="24dp"  
android:layout_marginTop="56dp"  
android:layout_marginEnd="24dp"  
android:hint="password"
```

```
android:imeOptions="actionDone"  
android:inputType="textPassword"  
android:selectAllOnFocus="true"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintHorizontal_bias="0.0"  
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_gravity="start"  
android:layout_marginStart="48dp"  
android:layout_marginTop="16dp"  
android:layout_marginEnd="48dp"  
android:layout_marginBottom="64dp"  
android:enabled="true"
```

```
android:text="login"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toBottomOf="@+id/password"  
app:layout_constraintVertical_bias="0.2" />
```

```
<ProgressBar
```

```
android:id="@+id/loading"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_gravity="center"  
android:layout_marginStart="32dp"  
android:layout_marginTop="64dp"
```

```

        android:layout_marginEnd="32dp"
        android:layout_marginBottom="64dp"
        android:visibility="gone"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/password"
        app:layout_constraintStart_toStartOf="@+id/password"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.3" />

<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="#B9F5A2"
    android:text="Login Into Account:"
    android:textColor="#673AB7"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.071" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="88dp"
    android:layout_height="36dp"
    android:text="TextView"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.658" />

<ImageButton
    android:id="@+id/iB"
    android:layout_width="34dp"
    android:layout_height="33dp"
    android:tint="#07515E"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.56"
    app:srcCompat="@android:drawable/ic_menu_info_details" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

**Output:**

