

## Program

**Aim:** Program to design a Login Form with username and password using LinearLayout and toast validcredentials

### XML Code:

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#ecdaf2"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/txt1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:padding="20dp"
        android:textAlignment="center"
        android:textSize="20sp"
        android:text="Login form"/>

    <EditText
        android:id="@+id/edt1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="100dp"
```

```
android:paddingStart="10dp"
```

```
android:hint="Username" />
```

```
<TextView
```

```
android:id="@+id/t1"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:visibility="gone"
```

```
android:padding="10dp"
```

```
android:text="*Please enter username"
```

```
android:textColor="@color/red"/>
```

```
<EditText
```

```
android:id="@+id/edt2"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginTop="50dp"
```

```
android:paddingStart="10dp"
```

```
android:hint="Password" />
```

```
<TextView
```

```
android:id="@+id/t2"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:visibility="gone"
```

```
android:padding="10dp"
```

```
android:text="*Please enter password"
```

```
android:textColor="@color/red"/>
```

```
<Button
```

```
android:id="@+id/btn1"
```

```
        android:layout_width="150dp"
        android:layout_height="40dp"
        android:layout_gravity="center"
        android:text="Sign In"
        android:layout_marginTop="20dp"
    />
</LinearLayout>
```

### **Java Code:**

```
package com.example.loginformvalidation;

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

public class MainActivity extends AppCompatActivity {

    EditText e1,e2;
    TextView t1, t2;
    Button b1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        e1=findViewById(R.id.edt1);
        e2=findViewById(R.id.edt2);
        t1 = findViewById(R.id.t1);
        t2 = findViewById(R.id.t2);
```

```

b1=findViewById(R.id.btn1);
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String username,password;
        username=e1.getText().toString();
        password=e2.getText().toString();
        if (username.isEmpty()){
            t1.setVisibility(View.VISIBLE);
            Toast.makeText(MainActivity.this, "Username is empty",
Toast.LENGTH_SHORT).show();
        }
        else if (password.isEmpty()){
            t2.setVisibility(View.VISIBLE);
            Toast.makeText(MainActivity.this, "Password is empty",
Toast.LENGTH_SHORT).show();
        }else
            Toast.makeText(MainActivity.this, "Login success",
Toast.LENGTH_SHORT).show();
        }
    });
}
}

```

**Output:**

Login Form Validation

Login form

Username

Please enter username

Password

SIGN IN