## PROGRAM 1:

Design a Login Form with username and password using LinearLayout and toast valid credentials

### CODE:

**activity_main.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android" >
    <EditText
        android:id="@+id/uname1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Username" />

    <EditText
        android:id="@+id/pass1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:minHeight="48dp" />
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:onClick="Login"/>
</LinearLayout>
```

### MainActivity.java:

```
package com.example.firstprogram;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import android.widget.EditText;
import android.widget.Toast;
import android.view.View;

public class MainActivity extends AppCompatActivity {
    private EditText unameEditText;
    private EditText passEditText;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```java
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        unameEditText = findViewById(R.id.uname1);
        passEditText = findViewById(R.id.pass1);
    }
    public void Login(View view) {
        String username = unameEditText.getText().toString();
        String password = passEditText.getText().toString();
        if (isValidCredentials(username,password))
        {
            Toast.makeText(this,"login Successful",Toast.LENGTH_SHORT).show();
        }
        else
        {
            Toast.makeText(this,"invalid credentials",Toast.LENGTH_SHORT).show();
        }
    }
    private boolean isValidCredentials(String username,String password)
    {
        return username.equals("Admin") && password.equals("1234");
    }

}
```