PROGRAM NO:1

<u>AIM:</u> Design a Login Form with username and password using LinearLayout and toast valid credentials.

PROGRAM CODE:

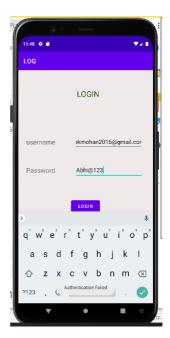
```
Mainac
              package com.example.log;
tivity.java
              import androidx.appcompat.app.AppCompatActivity;
              import android.os.Bundle;
              import android.view.View;
              import android.widget.Button;
              import android.widget.EditText;
              import android.widget.Toast;
              import java.util.Objects;
              public class MainActivity extends AppCompatActivity {
                  EditText Username,Password;
                  Button LOGIN;
                  protected void onCreate(Bundle savedInstanceState) {
                      super.onCreate(savedInstanceState);
                      setContentView(R.layout.activity_main);
                      Username=findViewById(R.id.editTextTextPersonName3);
                      Password=findViewById(R.id.editTextTextPersonName4);
                      LOGIN=findViewById(R.id.button);
                      LOGIN.setOnClickListener(new View.OnClickListener() {
                  @Override
                  public void onClick(View view) {
                      if(Objects.equals(Username.getText().toString(),
              "admin")&&Objects.equals(Password.getText().toString(),"admin"))
                          Toast.makeText(MainActivity.this, "You have Authenticated
              Successfully", Toast.LENGTH_LONG).show();
                      }else
                          Toast.makeText(MainActivity.this, "Authentication
              Failed",Toast.LENGTH_LONG).show();
                  }
                      });
              }
```

XML

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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:background="#EFE9E9"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout width="76dp"
        android:layout height="27dp"
        android:background="#EDE9E9"
        android:backgroundTint="#EDE9E9"
        android:text=" LOGIN"
        android:textColor="#0D1819"
        android:textSize="24sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.516"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.083" />
    <TextView
        android:id="@+id/textView2"
        android:layout width="113dp"
        android:layout height="24dp"
        android:text="username"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.08"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.3" />
    <EditText
        android:id="@+id/editTextTextPersonName3"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:hint=""
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.845"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.294"
        tools:ignore="SpeakableTextPresentCheck" />
    <TextView
        android:id="@+id/textView3"
        android:layout width="126dp"
        android:layout height="28dp"
```

```
android:text="Password"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.084"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.428" />
   <EditText
       android:id="@+id/editTextTextPersonName4"
        android:layout width="wrap content"
        android:layout height="wrap_content"
       android:ems="1\overline{0}"
        android:hint=""
        android:inputType="textPersonName"
       android:minHeight="48dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.85"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.424"
        tools:ignore="SpeakableTextPresentCheck" />
   <Button
       android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="LOGIN"
        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="0.59" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT:



<u>RESULT</u>

Program Has Been Succesfully Executed And Output Is Obtained.