**PROGRAM NO :1**

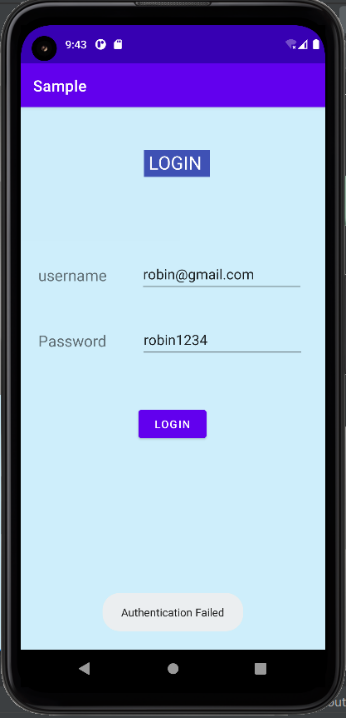
**AIM:** Design a Login Form with username and password using LinearLayout and toast valid credentials.

Git Link -> <https://github.com/TKM-MCA-2020-MOBILE-DEV-LAB/20MCA232-Robin-Monachan/tree/master/CO1/Q1>

**PROGRAM CODE:**

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| Mainac tivity.ja va | package com.example.log;  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**  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: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="10"  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:**

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RESULT

Program Has Been Succesfully Executed And Output Is Obtained.