

Program 3:

3. Create an application to develop Login window using UI controls.

activity_main.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:gravity="center"/>

    <EditText
        android:id="@+id/editTextText8"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        android:hint="username" />

    <EditText
        android:id="@+id/editTextText9"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        android:hint="password" />

    <Button
        android:id="@+id/button3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="login" />

</LinearLayout>
```

MainActivity.Java code:

```
package com.example.jithin33lab;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    private EditText a,b;
    private Button c;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
a= findViewById(R.id.editTextText8);
b= findViewById(R.id.editTextText9);
c = findViewById(R.id.button3);
c.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String username = a.getText().toString().trim();
        String password = b.getText().toString().trim();
        if(username.equals("admin") && password.equals("pass")){
            Toast.makeText(MainActivity.this, "Login successful",
Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(MainActivity.this, "Invalid username or
password", Toast.LENGTH_SHORT).show();
        }
    }
});
}
}

```