Practical No.: 4

Aim: Login Application

Source Code:

```
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"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/etName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="@string/name"
    android:inputType="textPersonName"
    android:layout marginStart="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="8dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.119"
    android:autofillHints=""/>
  <EditText
    android:id="@+id/etPassword"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="@string/password"
    android:inputType="textPersonName"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/etName"
    app:layout_constraintVertical_bias="0.135"
    tools:ignore="TextFields"
    android:autofillHints=""/>
  <Button
    android:id="@+id/btnLogin"
    android:layout_width="wrap_content"
```

```
android:layout height="wrap content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:text="@string/login"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout editor absoluteX="144dp"
    app:layout_editor_absoluteY="341dp" />
  <TextView
    android:id="@+id/tvInfo"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout marginTop="472dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.488"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.xml
package com.example.practical no 4;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  private Button Login;
  private EditText Name, Password;
  private TextView Info;
  private int counter=3;
  @SuppressLint("SetTextI18n")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Name=findViewById(R.id.etName);
    Password=findViewById(R.id.etPassword);
    Login=findViewById(R.id.btnLogin);
    Info=findViewById(R.id.tvInfo);
```

```
Info.setText("No of attempts remaining : "+counter);
    Login.setOnClickListener(
         new View.OnClickListener() {
           @Override
           public void onClick(View v) {
              validate(Name.getText().toString(),Password.getText().toString());
         }
    );
  }
  private void validate(String UserName,String PassWord)
    if(UserName.equals("admin") && PassWord.equals("admin"))
      Intent intent=new Intent(MainActivity.this,SecondActivity.class);
      startActivity(intent);
    else
      counter--;
      Info.setText("No of attempts remaining : "+counter);
      if(counter==0)
         Login.setEnabled(false);
    }
  }
Activity_second.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"
  tools:context=".SecondActivity">
  <EditText
    android:id="@+id/editText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="@string/welcome"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Strings.xml

```
<resources>
  <string name="app_name">Practical_No_4</string>
  <string name="name">Name</string>
  <string name="password">Password</string>
  <string name="welcome">welcome</string>
  <string name="login">Login</string>
  </resources>
```

Output:







