Practical 28

MainActivity.java

```java
package com.example.practical28;

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;

public class MainActivity extends AppCompatActivity {

    EditText uname, pass;

    Button b;

    int count=3;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        uname = findViewById(R.id.uname);

        pass = findViewById(R.id.pass);

        b = findViewById(R.id.button);

        b.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                String username=uname.getText().toString();

                String password=pass.getText().toString();

                if(username.isEmpty()||password.isEmpty()) {

                    Toast.makeText(getApplicationContext(), "Username or password can not be blank",
Toast.LENGTH_LONG).show();

                }

                else if (username.startsWith(" ")||password.startsWith(" ")) {
```

```java
        Toast.makeText(getApplicationContext(), "Username or password can not start with
space", Toast.LENGTH_LONG).show();
        }
        else if(username.length()<5||password.length()<5){
            Toast.makeText(getApplicationContext(),"Username or password is too
short",Toast.LENGTH_LONG).show();
        }
        else if(username.equals("admin")&&password.equals("Admin123"))
            Toast.makeText(getApplicationContext(),"Login successful",Toast.LENGTH_LONG).show();
        else
        {
            count--;
            if(count==0)
            {
                Toast.makeText(getApplicationContext(), "You have exceeded maximum number of
login attempts", Toast.LENGTH_LONG).show();
                b.setClickable(false);
                uname.setEnabled(false);
                pass.setEnabled(false);
            }
            else
                Toast.makeText(getApplicationContext(),"Invalid login details\nYou have "+count+"
attempts left",Toast.LENGTH_LONG).show();
        }
    }
});
    }
}
```

activity_main.xml

```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"
```

```xml
    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".MainActivity">

    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="match_parent"

        android:layout_marginLeft="30dp"

        android:layout_marginRight="30dp"

        android:layout_marginTop="50dp"

        android:orientation="vertical">

        <EditText

            android:id="@+id/uname"

            android:layout_width="match_parent"

            android:layout_height="wrap_content"

            android:ems="10"

            android:hint="Enter Username" />

        <EditText

            android:id="@+id/pass"

            android:layout_width="match_parent"

            android:layout_height="wrap_content"

            android:ems="10"

            android:inputType="textPassword"

            android:hint="Enter Password" />

        <Button

            android:id="@+id/button"

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:layout_gravity="center"

            android:layout_marginTop="30dp"

            android:text="Login" />
```

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT

Practical 28	**Practical 28**
Enter Username	admin
Enter Password	•••••
LOGIN	LOGIN
Username or password can not be blank	Invalid login details You have 2 attempts left

Practical 28	**Practical 28**
admin	admin
••••••	••••••••
LOGIN	LOGIN
You have exceeded maximum number of login attempts	Login successful