**Practical 27**

1. Write a Program to create a Login Form. Disable the login button until the user enters correct username and password.

Xml Code :

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:text="LOG IN"

android:textColor="@color/black"

android:textSize="45dp"

android:textStyle="bold" />

<TextView

android:id="@+id/tv1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="30dp"

android:layout\_marginTop="120dp"

android:text="Username: "

android:textColor="@color/black"

android:textSize="25dp"

android:textStyle="bold" />

<EditText

android:layout\_width="350dp"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/tv1"

android:layout\_alignLeft="@+id/tv1"

android:layout\_marginTop="20dp"

android:id="@+id/uname"/>

<TextView

android:id="@+id/tv2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/uname"

android:layout\_alignLeft="@+id/tv1"

android:layout\_marginTop="50dp"

android:text="Password: "

android:textColor="@color/black"

android:textSize="25dp"

android:textStyle="bold" />

<EditText

android:layout\_width="350dp"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/tv2"

android:layout\_alignLeft="@+id/tv1"

android:layout\_marginTop="20dp"

android:id="@+id/pass"/>

<Button

android:id="@+id/login"

android:layout\_width="200dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:layout\_marginBottom="80dp"

android:backgroundTint="@color/black"

android:enabled="false"

android:padding="15dp"

android:text="login"

android:textColor="@color/white"

android:textSize="25dp"

android:textStyle="bold" />

</RelativeLayout>

Java Code :

package com.example.exp27;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.telephony.PhoneNumberFormattingTextWatcher;

import android.text.Editable;

import android.text.TextWatcher;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText uname,pass;

TextView tv4;

Button login;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

uname=findViewById(R.id.uname);

pass=findViewById(R.id.pass);

login=findViewById(R.id.login);

login.setEnabled(false);

login.setVisibility(View.INVISIBLE);

Toast.makeText(MainActivity.this, "Login button is Invisibe and disabled!!", Toast.LENGTH\_LONG).show();

uname.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(uname.getText().toString().equals("Aditya")&&pass.getText().toString().equals("aditya@123"))

{

Toast.makeText(MainActivity.this, "Login button enabled!!", Toast.LENGTH\_SHORT).show();

login.setVisibility(View.VISIBLE);

login.setEnabled(true);

login.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, "Login Successfull!!", Toast.LENGTH\_SHORT).show();

}

});

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

pass.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(uname.getText().toString().equals("Aditya")&&pass.getText().toString().equals("aditya@123"))

{

Toast.makeText(MainActivity.this, "Login button enabled!!", Toast.LENGTH\_SHORT).show();

login.setVisibility(View.VISIBLE);

login.setEnabled(true);

login.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, "Login Successfull!!", Toast.LENGTH\_SHORT).show();

}

});

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

}

}

Output:

A screenshot of a computer

Description automatically generated with medium confidence Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated