

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:

exp27

LOG IN

Username:

Password:

Login button is Invisibe and disabled!!

exp27

LOG IN

Username:

Aditya23

Password:

abcde

exp27

LOG IN

Username:

Aditya

Password:

aditya@123

LOGIN

Login button enabled!!

exp27

LOG IN

Username:

Aditya

Password:

aditya@123

LOGIN

Login Successfull!!