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Sub: Mobile Application Development

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Assignment 5

Aim: Create login application where you will have to validate usename and passwords Till the username and password is not validated, login button should remain disabled.

>> .xml CODE

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_marginRight="20dp"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    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:text="TY IT B"
        android:textSize="40dp"
        android:textColor="#03A9F4"
        android:layout_centerHorizontal="true"
        android:id="@+id/text1" />
    <ImageView</pre>
        android:layout_width="150dp"
        android:layout_height="150dp"
        android:src="@drawable/ic_baseline_account_circle_24"
        android:layout_centerHorizontal="true"
        android:layout below="@+id/text1"
        android:layout marginTop="50dp"
        android:id="@+id/image1"
        ></ImageView>
    <EditText
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/image1"
        android:hint="Username"
        android:drawableLeft="@drawable/ic_baseline_add_circle_24"
```

```
android:layout_marginTop="50dp"
        android:singleLine="true"
        android:id="@+id/username"
        ></EditText>
    <EditText
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout_below="@+id/username"
        android:id="@+id/password"
        android:hint="Password"
        android:password="true"
        android:singleLine="true"
        android:drawableLeft="@drawable/ic_baseline_lock_24"
        android:layout_marginTop="10dp"
        ></EditText>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout centerHorizontal="true"
        android:layout_below="@+id/password"
        android:layout marginTop="40dp"
        android:id="@+id/login"
        android:text="Login"
        android:textSize="20dp"
        android:textColor="@color/white"
        android:background="#168F1B"
        android:enabled="false"
        ></Button>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tt2"
        android:visibility="invisible"
        android:layout_marginTop="50dp"
        android:layout_below="@+id/login"
        android:layout centerHorizontal="true"
        ></TextView>
</RelativeLayout>
```

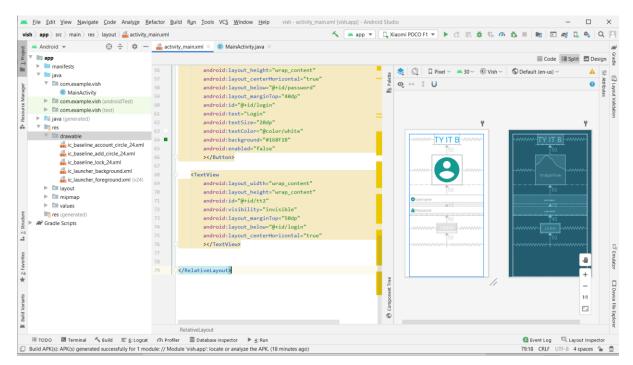
.java CODE

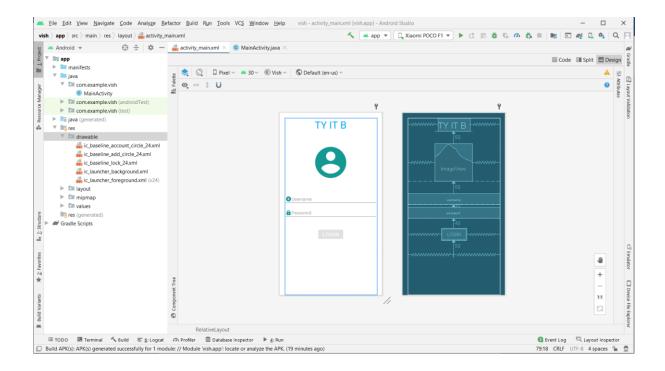
```
package com.example.vish;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
   EditText user,pass;
   Button b1;
   TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        user = (EditText)findViewById(R.id.username);
        pass = (EditText)findViewById(R.id.password);
        b1= (Button)findViewById(R.id.login);
        t1= (TextView)findViewById(R.id.tt2);
        b1.setEnabled(false);
        user.addTextChangedListener(new TextWatcher() {
            public void beforeTextChanged(CharSequence charSequence, int i, int
i1, int i2) {
            @Override
            public void onTextChanged(CharSequence charSequence, int i, int i1,
int i2) {
                String str_username=user.getText().toString();
                String str_password=pass.getText().toString();
                if(str_username.equals("user") && str_password.equals("123456"))
                    b1.setEnabled(true);
                }
                else
                {
                    b1.setEnabled(false);
                }
            }
            @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) {
                String str_username=user.getText().toString();
                String str password=pass.getText().toString();
```

```
if(str_username.equals("Sanket") && str_password.equals("123"))
                    b1.setEnabled(true);
                }
                else
                {
                    b1.setEnabled(false);
                }
            }
            @Override
            public void afterTextChanged(Editable editable) {
            }
        });
        b1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                t1.setText("Login Successful");
                t1.setVisibility(View.VISIBLE);
                Toast.makeText(MainActivity.this, "login Successful",
Toast.LENGTH_SHORT).show();
        });
    }
```

SCREENSHOTS:







TY IT B







LOGIN

login Successful



TY IT B



- Sanket
- **a** Password

LOGIN