

## Program No: 3

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### Aim

Create a facebook page using relative layout and implement validation on UI controls.

### Procedure

activity\_main.xml

```
<?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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#5F73F1">

    <EditText
        android:id="@+id/text1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="18dp"
        android:layout_marginTop="245dp"
        android:layout_marginRight="18dp"
        android:background="#fff"
        android:hint="Username"
        android:padding="8dp" />

    <EditText
        android:id="@+id/text2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/text1"
        android:layout_marginLeft="18dp"
        android:layout_marginTop="30dp"
        android:layout_marginRight="18dp"
        android:background="#fff"
        android:hint="Password"
        android:padding="8dp" />

    <Button
        android:id="@+id/b1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/text2"
```

```

        android:layout_alignStart="@+id/text2"
        android:layout_alignEnd="@+id/text2"
        android:layout_marginStart="3dp"
        android:layout_marginTop="25dp"
        android:layout_marginEnd="-1dp"
        android:text="Login"
        android:textColor="#00CC99" />

<TextView
    android:id="@+id/text3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/b1"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_marginTop="79dp"
    android:layout_marginEnd="112dp"
    android:layout_marginRight="112dp"
    android:text="Not a member?Sign up now"
    android:textColor="#fff" />

<TextView
    android:id="@+id/textView4"
    android:layout_width="359dp"
    android:layout_height="171dp"
    android:fontFamily="sans-serif"
    android:text="facebook"
    android:textSize="48sp" />

</RelativeLayout>

```

## MainActivity.java

```

package com.example.fb;
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 {
    private EditText usernameEditText;
    private EditText passwordEditText;
    private Button loginButton;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        usernameEditText = findViewById(R.id.text1);
        passwordEditText = findViewById(R.id.text2);
        loginButton = findViewById(R.id.b1);
        loginButton.setOnClickListener(new View.OnClickListener() {

```

```
@Override
public void onClick(View v) {
    if (usernameEditText.getText().length() > 0 &&
        passwordEditText.getText().length() > 0) {
        String toastMessage = "Username: " +
            usernameEditText.getText().toString() + ",
Password: " +
            passwordEditText.getText().toString();
        Toast.makeText(getApplicationContext(), toastMessage,
            Toast.LENGTH_SHORT).show();
    } else {
        String toastMessage = "Username or Password are not
populated";
        Toast.makeText(getApplicationContext(), toastMessage,
            Toast.LENGTH_SHORT).show();
    }
}
});
}
```

## Output

