

```
package com.example.lab3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import java.util.regex.Pattern;

public class MainActivity extends AppCompatActivity {
    EditText userName,userPass;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        userName=findViewById(R.id.signName);
        userPass=findViewById(R.id.signPass);
    }

    public void signEvent(View view) {
        String uName= userName.getText().toString();
        String uPass= userPass.getText().toString();

        if(!isValidPassword(uPass)){
            Toast.makeText(MainActivity.this, "Invalid Password",
Toast.LENGTH_SHORT).show();
            return;
        }
        Intent it= new Intent(MainActivity.this,Login.class);
        it.putExtra("userName",uName);
        it.putExtra("userPass",uPass);
        startActivity(it);
    }

    Pattern lowercase = Pattern.compile("^.*[a-z].*$");
    Pattern uppercase = Pattern.compile("^.*[A-Z].*$");
    Pattern number = Pattern.compile("^.*[0-9].*$");
    Pattern special = Pattern.compile("^.*[^a-zA-Z0-9].*$");

    private boolean isValidPassword(String uPass) {
        if(uPass.length()<8)
            return false;
        if(!lowercase.matcher(uPass).matches())
            return false;
        if(!uppercase.matcher(uPass).matches())
            return false;
        if(!number.matcher(uPass).matches())
            return false;
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        if(!special.matcher(uPass).matches())
            return false;
        return true;
    }
}

```

LOGIN JAVA :

```

package com.example.lab3;

```

```

import androidx.appcompat.app.AppCompatActivity;

```

```

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

```

```

public class Login extends AppCompatActivity {

```

```

    EditText userName,userPass;

```

```

    Button btn;

```

```

    Integer count=2;

```

```

    @Override

```

```

    protected void onCreate(Bundle savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);

```

```

        setContentView(R.layout.activity_login);

```

```

        userName = findViewById(R.id.logName);

```

```

        userPass = findViewById(R.id.logPass);

```

```

        btn = findViewById(R.id.btnLog);
    }

```

```

    public void logEvent(View view) {

```

```

        String uName = getIntent().getStringExtra("userName");

```

```

        String uPass = getIntent().getStringExtra("userPass");

```

```

        String Name = userName.getText().toString();

```

```

        String Pass = userPass.getText().toString();

```

```

        if(uName.equals(Name) && uPass.equals(Pass)){

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            Intent it = new Intent(Login.this,MainPage.class);

```

```

            startActivity(it);

```

```

            return;
        }

```

```

        else{

```

```

            Toast.makeText(Login.this, "Invalid Credentials",

```

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            Toast.LENGTH_SHORT).show();

```

```

            count--;
        }

```

```

        if(count==0){

```

```

            Toast.makeText(Login.this, "Invalid Credentials\nAttempts Exempted!!",

```

```

            Toast.LENGTH_SHORT).show();

```

```

            btn.setEnabled(false);
        }
    }

```

```
}  
}
```

MAINPAGE JAVA :

```
package com.example.lab3;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainPage extends AppCompatActivity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main_page);  
    }  
}
```