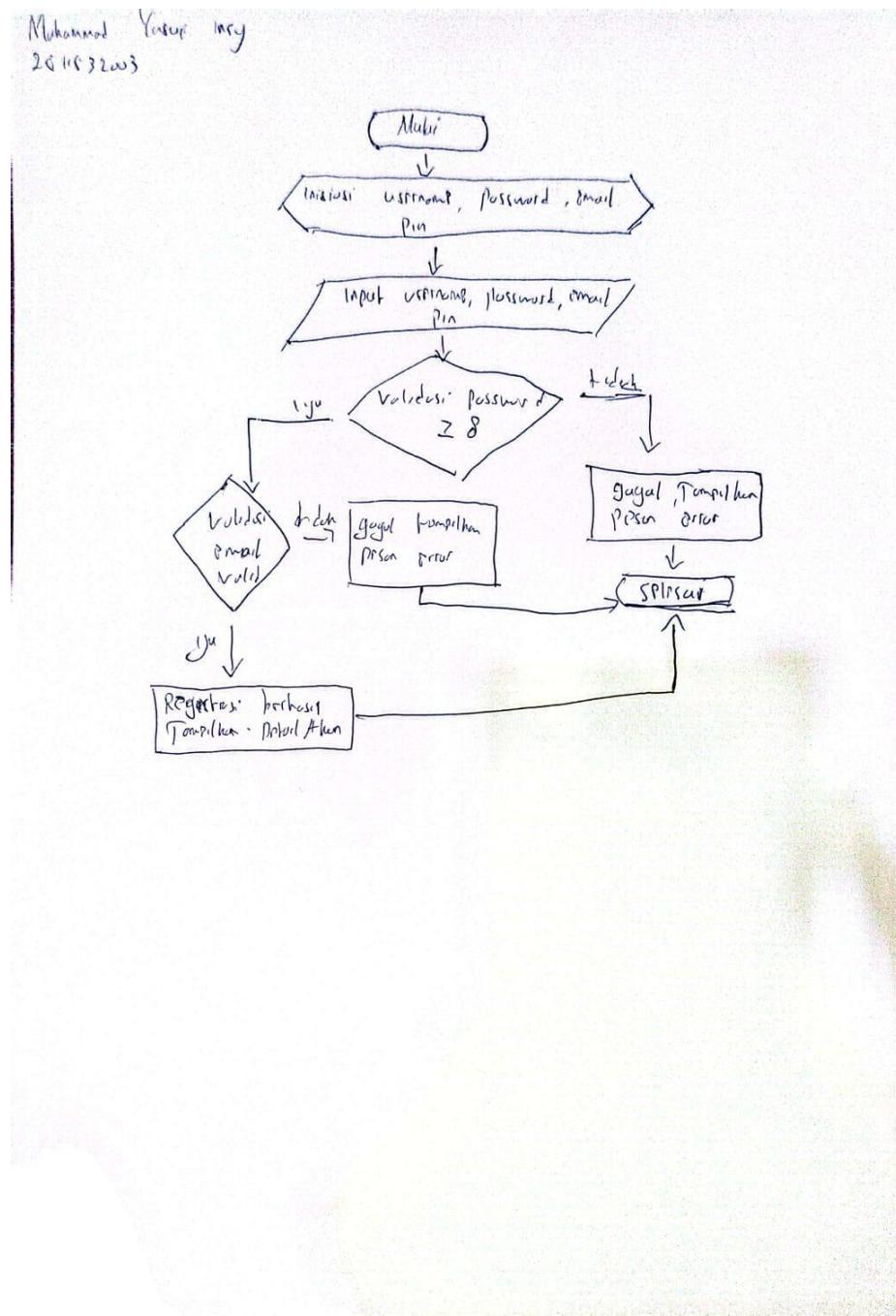


Nama : Muhammad Yusuf Insy

NIM : 2511532003

Tugas Prakalpro Pekan 7

1. Flowchart :



2. Pseudocode :

Registrasi
Deklarasi
objek akun : Akun
username, password, email : String
pin : Integer
Algoritma
CETAK "REGISTRASI AKUN BARU"
INPUT "Masukkan Username: " → username
SET akun.username = username
INPUT "Masukkan Password: " → password
SET akun.password = password
INPUT "Masukkan Email: " → email
SET akun.email = email
INPUT "Masukkan PIN (6 digit): " → pin
SET akun.pinAngka = pin
// Validasi Password
JIKA akun.isPasswordValid() == FALSE
CETAK "---
CETAK "REGISTRASI GAGAL"
CETAK "Password Anda "<password>" tidak valid."
CETAK "Password harus minimal 8 karakter."
CETAK "Silakan coba lagi."
SELESAI PROGRAM
ENDIF
// Validasi Email
JIKA akun.isEmailValid() == FALSE
CETAK "---
CETAK "REGISTRASI GAGAL"
CETAK "Email Anda "<email>" tidak valid."
CETAK "Silakan coba lagi."
SELESAI PROGRAM
ENDIF
// Jika Valid
CETAK "REGISTRASI BERHASIL ---"
CETAK "Akun untuk "<username>" telah berhasil dibuat."

CETAK "---Detail Akun"

CETAK "Username (Lowercase): " + username.toLowerCase()

CETAK "Email (Uppercase): " + email.toUpperCase()

idGabungan = username + pin

CETAK "ID Pengguna (Gabungan): " + idGabungan

CETAK "--- Uji Tipe Data (PIN Anda: pin) ---"

CETAK "PIN (int) + 10 = " + (pin + 10)

pinString = ubah pin menjadi String

CETAK "PIN (String) + \"10\" = " + pinString + "10"

END PROGRAM

3. File Program



Akun_2511532003.java



Registrasi.java

4. Output

Output berhasil

The screenshot shows the Eclipse IDE interface with the Registrasi.java file open in the editor. The code implements the logic described in the text above, including user input handling and system output for registration success and detail printing. The console tab at the bottom displays the successful registration message and the printed details.

```
2025_prakalpro_A_2511532003/src/pekan7_2511532003/Registrasi.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explor... Project Explor...
2025_prakalpro_A_2511532003 (2025_prakalpro_A)
src
pekant
pekant1
pekant2
pekant3
pekant4
pekant5
pekant6_2511532003
pekant7_2511532003
Akun_2511532003.java
BilanganPrima_2511532003.java
Mahasiswa_2511532003.java
PanggilMahasiswa_2511532003.java
PanggilMahasiswa2_2511532003.java
Registrasi.java
String1_2511532003.java
String2_2511532003.java
LAPRAK STRING PADA JAVA MUHAMMAD YUSUF INSYARATI
HelloWorld

46     System.out.println("REGISTRASI GAGAL");
47     System.out.println("Email Anda '" + akun.getEmail() + "' tidak valid (harus mengandung '@' dan '.').");
48     System.out.println("Silakan coba lagi.");
49 }
50 }
51 }
52 }
53 }
54 }
55 }
56 }
57 }
58 }
59 }
60 }
61 }
62 }
63 }
64 }
65 }
66 }
67 }
68 }
69 }
70 }
71 }

// Jika lolos semua validasi
System.out.println("REGISTRASI BERHASIL ---");
System.out.println("Akun untuk '" + akun.getUsername() + "' telah berhasil dibuat.");

System.out.println("---Detail Akun");
System.out.println("Username (Lowercase): " + akun.getUsername().toLowerCase());
System.out.println("Email (Uppercase): " + akun.getEmail().toUpperCase());

// ID gabungan username + PIN
String idGabungan = akun.getUsername().concat(String.valueOf(akun.getPinAngka()));
System.out.println("ID Pengguna (Gabungan): " + idGabungan);

// Uji tipe data
System.out.println("--- Uji Tipe Data (PIN Anda: " + akun.getPinAngka() + " ---");
System.out.println("PIN (int) + 10 = " + (akun.getPinAngka() + 10));

String pinString = "" + akun.getPinAngka(); // manipulasi String
System.out.println("PIN (String) + \"10\" = " + pinString + "10");

input.close();

REGISTRASI BERHASIL ---
Akun untuk "muhammad yusuf insy" telah berhasil dibuat.
--Detail Akun
Username (Lowercase): muhammad yusuf insy
Email (Uppercase): YUSUP@INTENG.COM
ID Pengguna (Gabungan): muhammad yusuf insy 123456
--- Uji Tipe Data (PIN Anda: 123456) ---
PIN (int) + 10 = 123466
PIN (String) + "10" = 12345610
```

Output gagal :

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure for "2025_prakalpro_A_2511532003".
- Code Editor:** Displays the `Registrasi.java` file containing Java code for user registration validation.
- Terminal:** Shows the output of the application execution, indicating a failed registration attempt due to invalid email format.

```
REGISTRASI AKUN BARU
Masukkan Username: yusuf
Masukkan Password: sadasdasd
Masukkan Email: asdasd
Masukkan PIN (6 digit): 123123

...
REGISTRASI GAGAL
Email Anda "asdasd" tidak valid (harus mengandung '@' dan '.').
Silakan coba lagi.
```