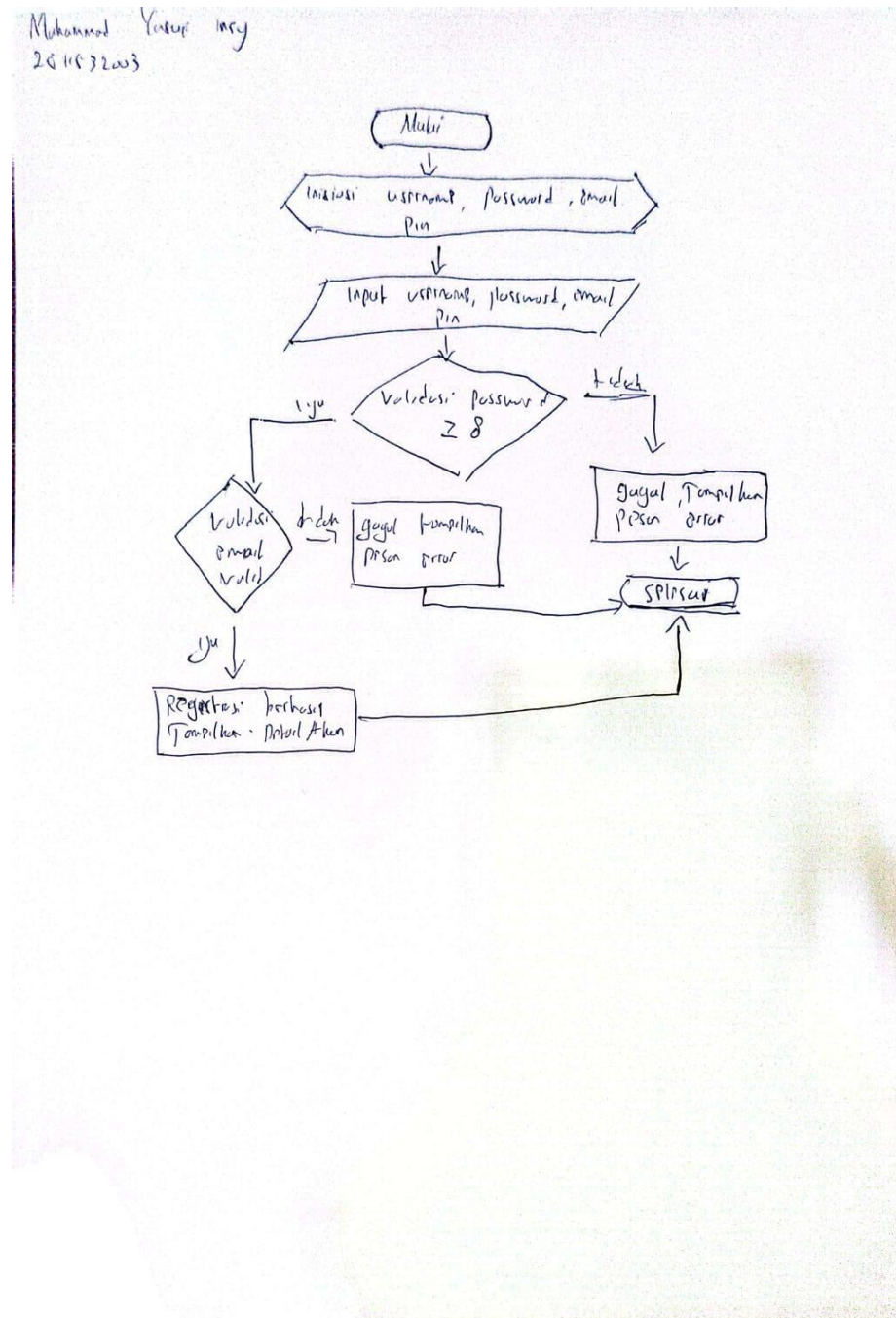


Nama : Muhammad Yusuf Insy

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

```
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      return;
50  }
51
52  // Jika lolos semua validasi
53  System.out.println("REGISTRASI BERHASIL ---");
54  System.out.println("Akun untuk \"\" + akun.getUsername() + \"\" telah berhasil dibuat.");
55
56  System.out.println("---Detail Akun");
57  System.out.println("Username (Lowercase): " + akun.getUsername().toLowerCase());
58  System.out.println("Email (Uppercase): " + akun.getEmail().toUpperCase());
59
60  // ID gabungan username + PIN
61  String idGabungan = akun.getUsername().concat(String.valueOf(akun.getPinAngka()));
62  System.out.println("ID Pengguna (Gabungan): " + idGabungan);
63
64  // Uji tipe data
65  System.out.println("--- Uji Tipe Data (PIN Anda: " + akun.getPinAngka() + ") ---");
66  System.out.println("PIN (int) + 10 = " + (akun.getPinAngka() + 10));
67
68  String pinString = "" + akun.getPinAngka(); // konversi String
69  System.out.println("PIN (String) + \"10\" = " + pinString + "10");
70
71  input.close();
```

Problems | Javadoc | Declaration | Progress | Git Staging | Console | Eclipse IDE for Java Developers 2025-09 Release

terminated: Registrasi [Java Application] C:\Users\USER\p2\pooh\plugins\org.eclipse.jdt.ui\openjdk.hotspot.jre.full.win32.x86_64.23.0.2.v20250131-0604\jre\bin\javaw.exe. (Nov 17, 2025, 12:42:28 AM - 12:43:32 AM elapsed: 00:10)

REGISTRASI AKUN BARU
Masukkan Username: muhammad yusuf insy
Masukkan Password: mamang123
Masukkan Email: yusuf@teng.com
Masukkan PIN (6 digit): 123456

REGISTRASI BERHASIL ---
Akun untuk "muhammad yusuf insy" telah berhasil dibuat.
---Detail Akun
Username (Lowercase): muhammad yusuf insy
Email (Uppercase): YUSUF@TENG.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. The Project Explorer on the left displays a project named '2025_prakalpro_A_2511532003' with a source folder 'src' containing several files, including 'Registarsi.java'. The main editor window shows the code for 'Registarsi.java'. The code includes a registration process with validation for password and email. The email validation logic is as follows:

```
35 System.out.println("...");
36 System.out.println("REGISTRASI GAGAL");
37 System.out.println("Password Anda \"" + akun.getPassword() + "\" tidak valid.");
38 System.out.println("Password harus minimal 8 karakter.");
39 System.out.println("Silakan coba lagi.");
40 return;
41 }
42
43 // Validasi EMAIL
44 if (!akun.isEmailValid()) {
45     System.out.println("...");
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     return;
50 }
51
52 // Jika lolos semua validasi
53 System.out.println("REGISTRASI BERHASIL ...");
54 System.out.println("Akun untuk \"" + akun.getUsername() + "\" telah berhasil dibuat.");
55
56 System.out.println("---Detail Akun");
57 System.out.println("Username (Lowercase): " + akun.getUsername().toLowerCase());
58 System.out.println("Email (Uppercase) : " + akun.getEmail().toUpperCase());
59
60 // ID gabungan username + PIN
```

The Console window at the bottom shows the output of the application. It indicates that the registration failed due to an invalid email address:

```
REGISTRASI AKIN BARU
Masukkan Username: yusuf
Masukkan Password: sdasdasdasd
Masukkan Email: asdasd
Masukkan PIN (6 digit): 123123
|
---
REGISTRASI GAGAL
Email Anda "asdasd" tidak valid (harus mengandung '@' dan '.').
Silakan coba lagi.
```