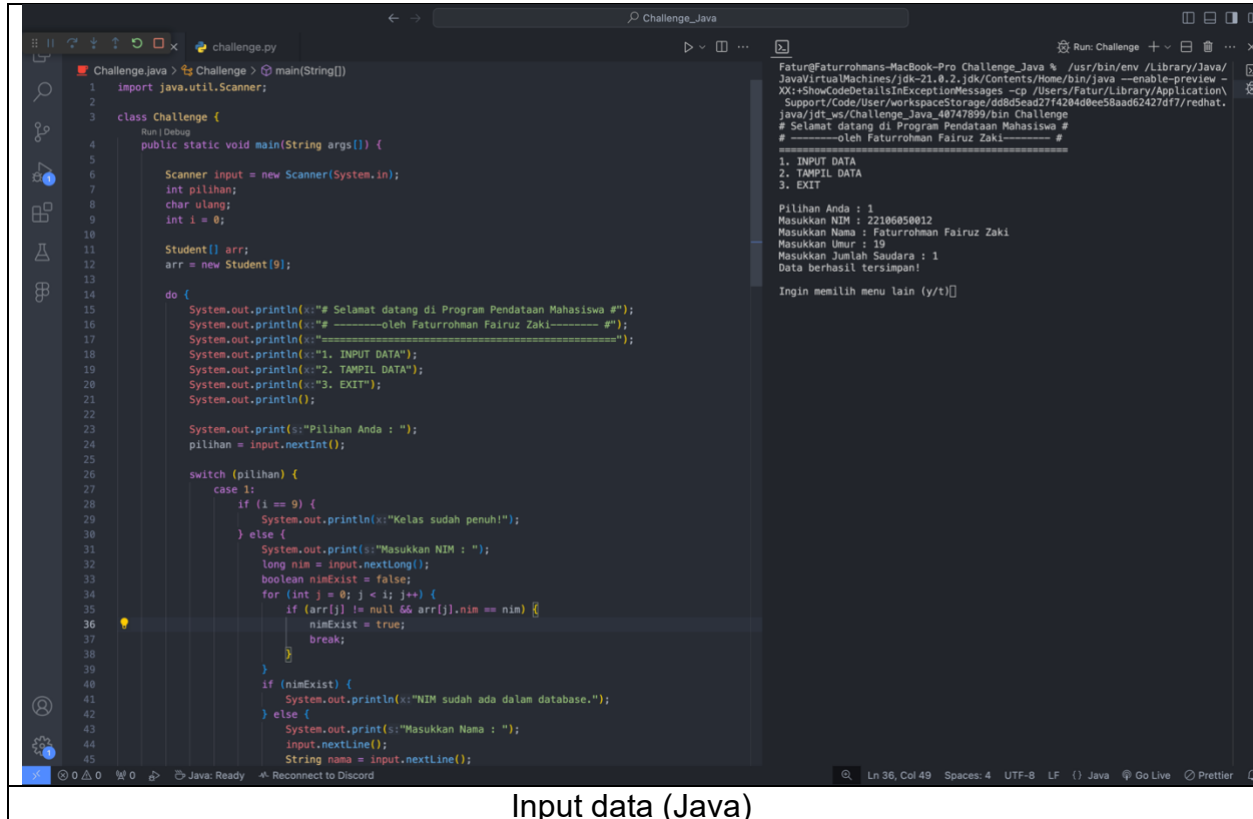# Output Program Pendataan Mahasiswa
Perancangan Struktur Data

Nama   : Faturrohman Fairuz Zaki
NIM   : 22106050012
Kelas   : Informatika C

Input data (Java)

```java
import java.util.Scanner;

class Challenge {
    public static void main(String args[]) {

        Scanner input = new Scanner(System.in);
        int pilihan;
        char ulang;
        int i = 0;

        Student[] arr;
        arr = new Student[9];

        do {
            System.out.println(x:"# Selamat datang di Program Pendataan Mahasiswa #");
            System.out.println(x:"# --------oleh Faturrohman Fairuz Zaki-------- #");
            System.out.println(x:"================================================");
            System.out.println(x:"1. INPUT DATA");
            System.out.println(x:"2. TAMPIL DATA");
            System.out.println(x:"3. EXIT");
            System.out.println();

            System.out.print(s:"Pilihan Anda : ");
            pilihan = input.nextInt();

            switch (pilihan) {
                case 1:
                    if (i == 9) {
                        System.out.println(x:"Kelas sudah penuh!");
                    } else {
                        System.out.print(s:"Masukkan NIM : ");
                        long nim = input.nextLong();
                        boolean nimExist = false;
                        for (int j = 0; j < i; j++) {
                            if (arr[j] != null && arr[j].nim == nim) {
                                nimExist = true;
                                break;
                            }
                        }
                        if (nimExist) {
                            System.out.println(x:"NIM sudah ada dalam database.");
                        } else {
                            System.out.print(s:"Masukkan Nama : ");
                            input.nextLine();
                            String nama = input.nextLine();
```

Terminal output:

```
# Selamat datang di Program Pendataan Mahasiswa #
# --------oleh Faturrohman Fairuz Zaki-------- #
================================================
1. INPUT DATA
2. TAMPIL DATA
3. EXIT

Pilihan Anda : 2
Data Mahasiswa:
------------------------------------
NIM            :22106050012
Nama           :Faturrohman Fairuz Zaki
Umur           :19
Jumlah Saudara :1
------------------------------------
NIM            :22106050013
Nama           :Hasan Al Haidar
Umur           :20
Jumlah Saudara :1
------------------------------------
NIM            :22106050500
Nama           :Adi Budi Cahyono
Umur           :68
Jumlah Saudara :1
------------------------------------

Ingin memilih menu lain (y/t)
```

Tampilkan data (Java)

```python
        self.nim = nim
        self.name = nama
        self.umur = umur
        self.jmlSaudara = jmlSaudara

def main():
    print("# Selamat datang di Program Pendataan Mahasiswa #")
    print("=======# oleh: Faturrohman Fairuz Zaki #=======")
    print("================================================")
    print("1. INPUT DATA")
    print("2. TAMPIL DATA")
    print("3. EXIT")
    choice = input("Pilihan Anda : ")
    return choice

while True:
    choice = main()
    if choice == "1":
        if index > 9:
            print("Kelas sudah penuh!")
        else:
            inputNim = input("Masukkan NIM : ")
            nim_exists = False
            for i in student:
                if inputNim == i.nim:
                    nim_exists = True
                    break
            if nim_exists:
                os.system('cls' if os.name == 'nt' else 'clear')
                print("NIM sudah ada!")
            else:
                inputNama = input("Masukkan Nama : ")
                inputUmur = input("Masukkan Umur : ")
                inputJmlSaudara = input("Masukkan Jumlah Saudara: ")
                s = Student(inputNim, inputNama, inputUmur, inputJmlSaudara)
                student.append(s)
                index += 1
                os.system('cls' if os.name == 'nt' else 'clear')
                print("Data berhasil tersimpan!")
    elif choice == "2":
        os.system('cls' if os.name == 'nt' else 'clear')
        print("Data Mahasiswa :")
        for i in student:
            print("NIM\t\t: ", i.nim)
            print("Nama\t\t: ", i.name)
            print("Umur\t\t: ", i.umur)
```

Terminal output:

```
Data berhasil tersimpan!
# Selamat datang di Program Pendataan Mahasiswa #
=======# oleh: Faturrohman Fairuz Zaki #=======
================================================
1. INPUT DATA
2. TAMPIL DATA
3. EXIT
Pilihan Anda : 1
Masukkan NIM : 22106050013
Masukkan Nama : Hasan Al Haidar
Masukkan Umur : 20
Masukkan Jumlah Saudara: 1
```

Input data (Python)

```python
        self.nim = nim
        self.name = nama
        self.umur = umur
        self.jmlSaudara = jmlSaudara

def main():
    print("# Selamat datang di Program Pendataan Mahasiswa #")
    print("=======# oleh: Faturrohman Fairuz Zaki #=======")
    print("================================================")
    print("1. INPUT DATA")
    print("2. TAMPIL DATA")
    print("3. EXIT")
    choice = input("Pilihan Anda : ")
    return choice

while True:
    choice = main()
    if choice == "1":
        if index > 9:
            print("Kelas sudah penuh!")
        else:
            inputNim = input("Masukkan NIM : ")
            nim_exists = False
            for i in student:
                if inputNim == i.nim:
                    nim_exists = True
                    break
            if nim_exists:
                os.system('cls' if os.name == 'nt' else 'clear')
                print("NIM sudah ada!")
            else:
                inputNama = input("Masukkan Nama : ")
                inputUmur = input("Masukkan Umur : ")
                inputJmlSaudara = input("Masukkan Jumlah Saudara: ")
                s = Student(inputNim, inputNama, inputUmur, inputJmlSaudara)
                student.append(s)
                index += 1
                os.system('cls' if os.name == 'nt' else 'clear')
                print("Data berhasil tersimpan!")
    elif choice == "2":
        os.system('cls' if os.name == 'nt' else 'clear')
        print("Data Mahasiswa :")
        for i in student:
            print("NIM\t\t: ", i.nim)
            print("Nama\t\t: ", i.name)
            print("Umur\t\t: ", i.umur)
```

```
Data Mahasiswa :
NIM             : 22106050012
Nama            : Faturrohman Fairuz Zaki
Umur            : 19
Jumlah Saudara  : 1
==================================
NIM             : 22106050013
Nama            : Hasan Al Haidar
Umur            : 20
Jumlah Saudara  : 1
==================================
# Selamat datang di Program Pendataan Mahasiswa #
=======# oleh: Faturrohman Fairuz Zaki #========
==================================
1. INPUT DATA
2. TAMPIL DATA
3. EXIT
Pilihan Anda : 
```

Tampilkan data (Python)