Output Program Pendataan Mahasiswa (Linked List)
Perancangan Struktur Data

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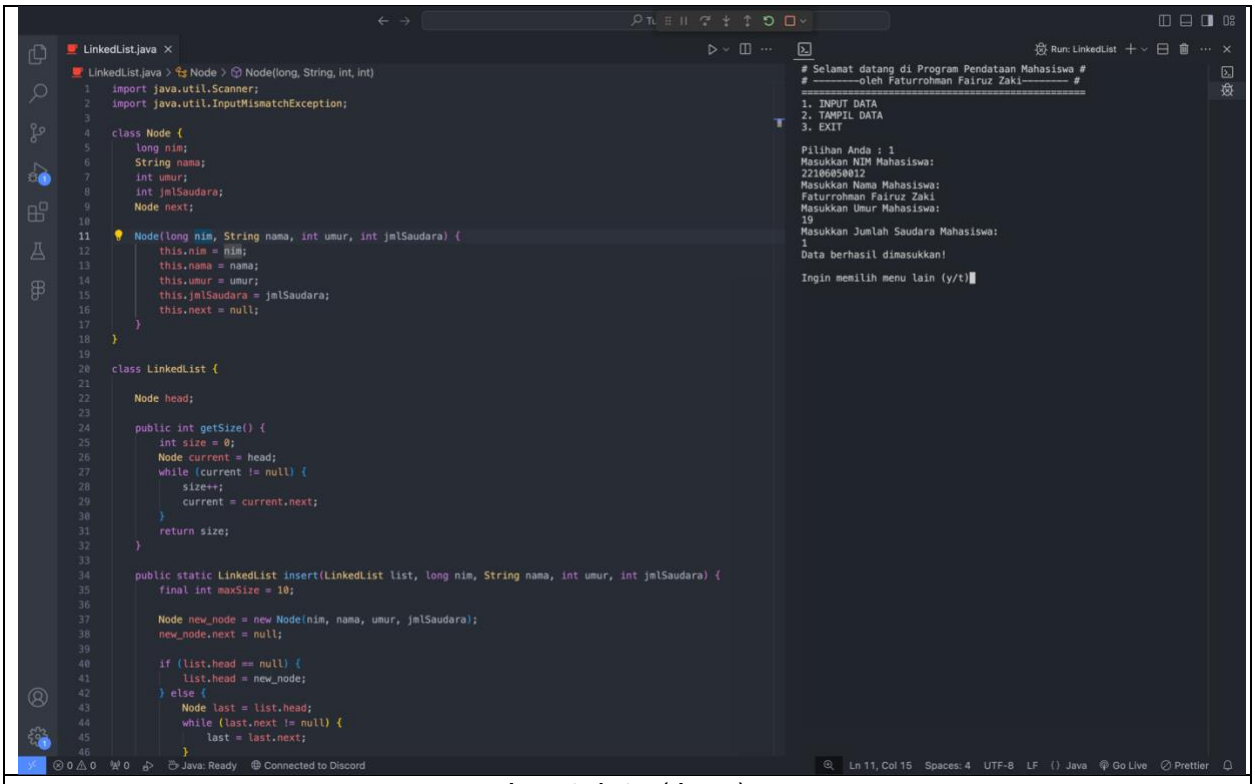
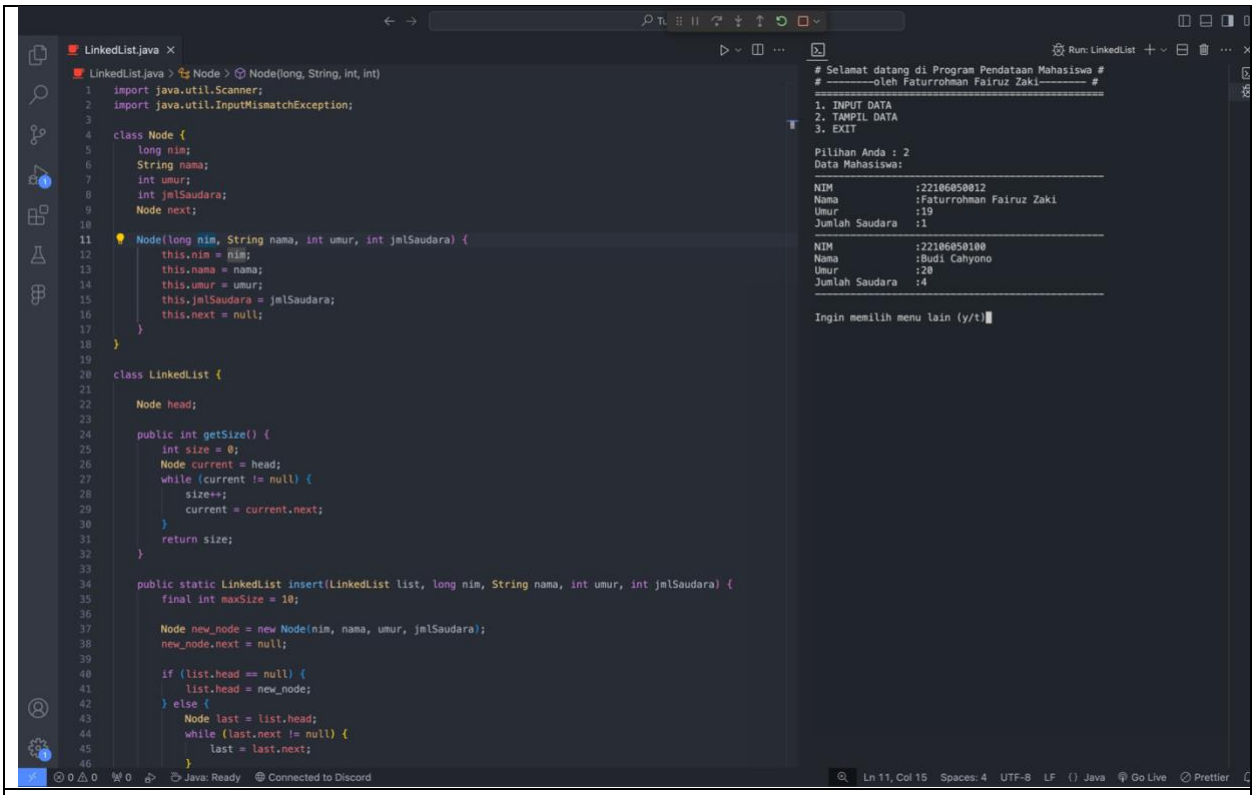


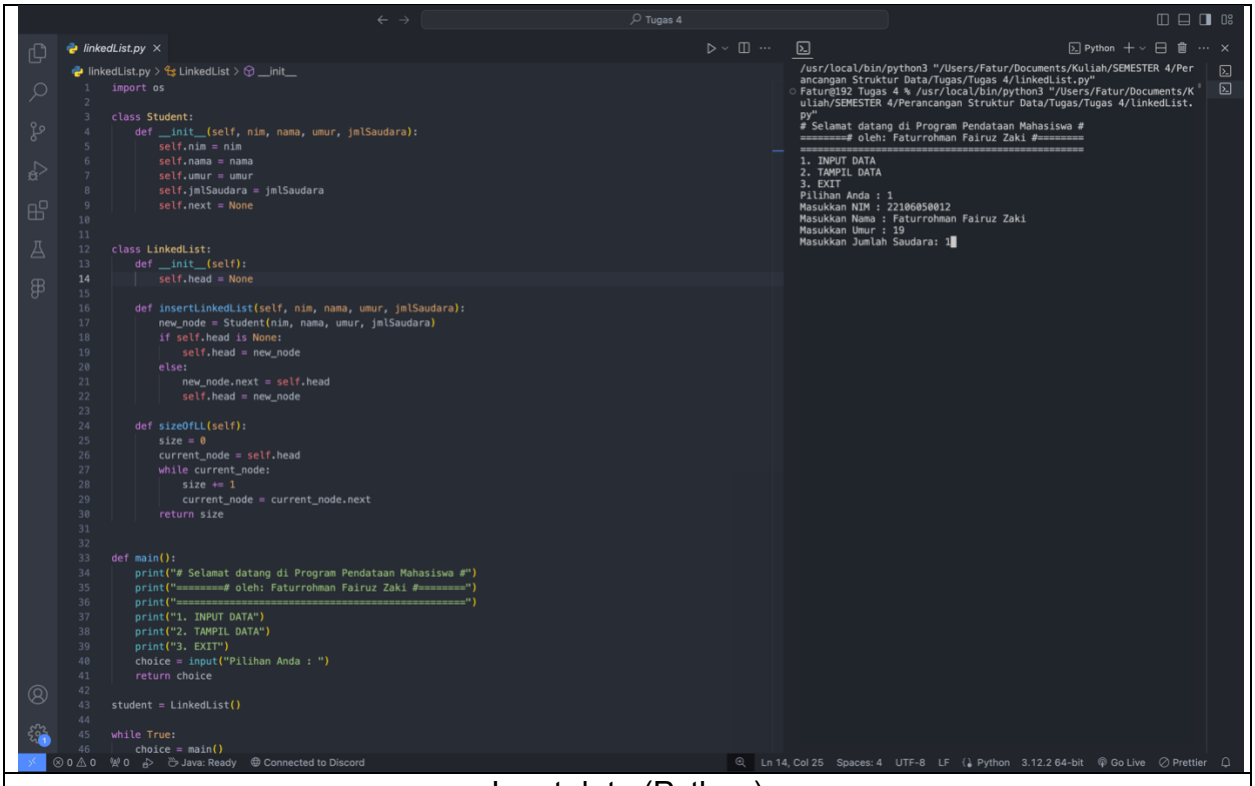
Input data (Java)



```java
import java.util.Scanner;
import java.util.InputMismatchException;

class Node {
    long nim;
    String nama;
    int umur;
    int jmlSaudara;
    Node next;

    Node(long nim, String nama, int umur, int jmlSaudara) {
        this.nim = nim;
        this.nama = nama;
        this.umur = umur;
        this.jmlSaudara = jmlSaudara;
        this.next = null;
    }
}

class LinkedList {

    Node head;

    public int getSize() {
        int size = 0;
        Node current = head;
        while (current != null) {
            size++;
            current = current.next;
        }
        return size;
    }

    public static LinkedList insert(LinkedList list, long nim, String nama, int umur, int jmlSaudara) {
        final int maxSize = 10;

        Node new_node = new Node(nim, nama, umur, jmlSaudara);
        new_node.next = null;

        if (list.head == null) {
            list.head = new_node;
        } else {
            Node last = list.head;
            while (last.next != null) {
                last = last.next;
            }
```

```
# 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             :22106050100
Nama            :Budi Cahyono
Umur            :20
Jumlah Saudara  :4
------------------------------------------------

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

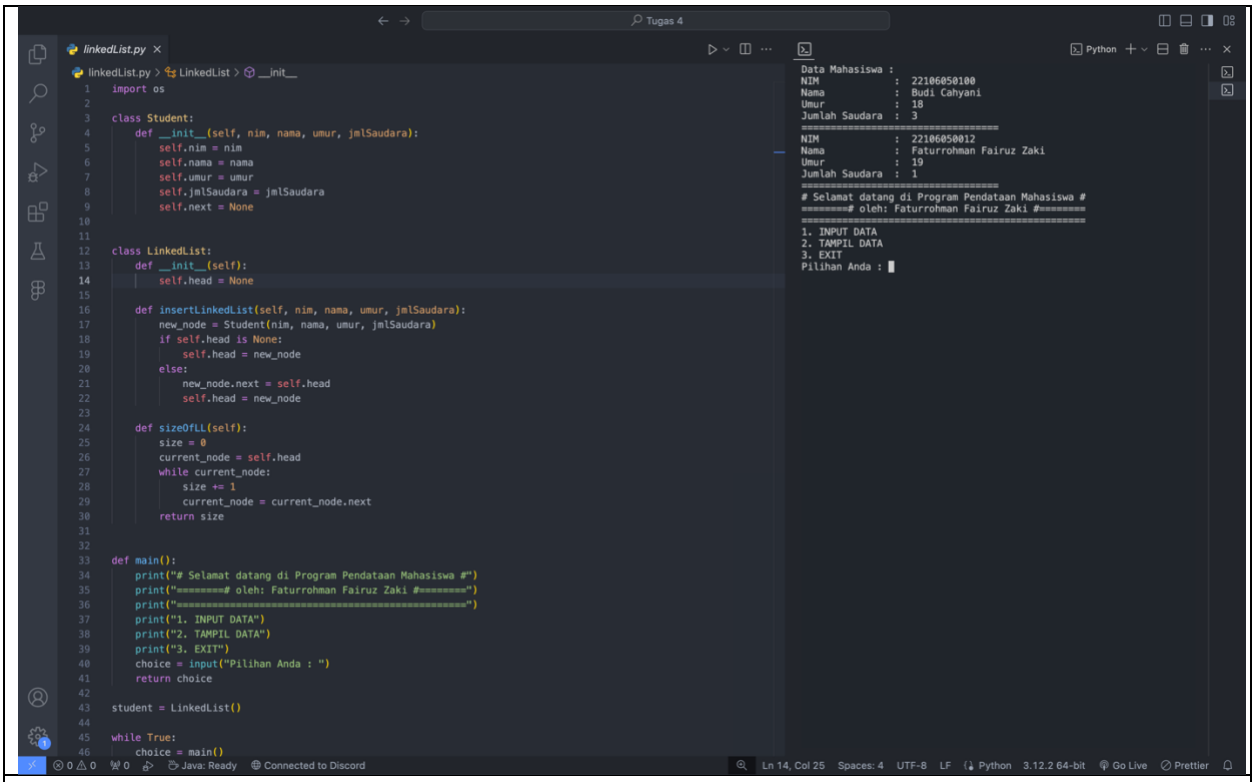
Tampilkan data (Java)



```python
import os

class Student:
    def __init__(self, nim, nama, umur, jmlSaudara):
        self.nim = nim
        self.nama = nama
        self.umur = umur
        self.jmlSaudara = jmlSaudara
        self.next = None


class LinkedList:
    def __init__(self):
        self.head = None

    def insertLinkedList(self, nim, nama, umur, jmlSaudara):
        new_node = Student(nim, nama, umur, jmlSaudara)
        if self.head is None:
            self.head = new_node
        else:
            new_node.next = self.head
            self.head = new_node

    def sizeOfLL(self):
        size = 0
        current_node = self.head
        while current_node:
            size += 1
            current_node = current_node.next
        return size


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

student = LinkedList()

while True:
    choice = main()
```

```
/usr/local/bin/python3 "/Users/Fatur/Documents/Kuliah/SEMESTER 4/Perancangan Struktur Data/Tugas/Tugas 4/linkedList.py"
Fatur@192 Tugas 4 % /usr/local/bin/python3 "/Users/Fatur/Documents/Kuliah/SEMESTER 4/Perancangan Struktur Data/Tugas/Tugas 4/linkedList.py"
# Selamat datang di Program Pendataan Mahasiswa #
========# oleh: Faturrohman Fairuz Zaki #========
================================================
1. INPUT DATA
2. TAMPIL DATA
3. EXIT
Pilihan Anda : 1
Masukkan NIM : 22106050012
Masukkan Nama : Faturrohman Fairuz Zaki
Masukkan Umur : 19
Masukkan Jumlah Saudara: 1
```

Input data (Python)



Tampilkan data (Python)