Tugas 4 – Praktikum Pemrograman Dasar

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-Script

1.

```
public class linkedlist {
  LinkedListNode head;
  LinkedListNode tail;

  linkedlist (){
    this.head = null;
    this.tail = null;
  }
  void print(){
    LinkedListNode current = this.head;
    int i = 1;
    while (current != null){
      System.out.println(i+ "."+ current.data);
      current = current.next;
      i = i+1;
    }
    if(this.head == null){
      System.out.println("Kosong");
    }else{
      System.out.println("");
    }

  }
  public int size(){
    int r = 0;
    LinkedListNode current = this.head;
    while (current != null){
      current = current.next;
      r = r+1;
    }
    return r;
  }
  void push(LinkedListNode new_node) {
    if (this.head == null && this.tail == null){
      head = new_node;
      tail = new_node;
    }else{
      tail.next = new_node;
      new_node.prev = tail;
      tail= new_node;
    }
  }
LinkedListNode qpop(){
  LinkedListNode taken = null;
  if (this.head == null && this.tail == null) {
    taken = null;
```

```java
  } else if (this.head == this.tail) {
    taken = head;
    head = null;
    tail = null;
  }else{
  taken = head;
  head = head.next;
  }
    return taken;
}
LinkedListNode spop(){
  LinkedListNode taken = null;
  if (this.head == null && this.tail == null) {
    taken = null;
  }else if (this.head == this.tail){
    taken = tail;
    head = null;
    tail = null;
  }else{
    taken = null;
    tail.prev.next = null;
    tail = tail.prev;
  }
  return taken;
}
}
```

2.

```java
public class LinkedListNode{
  LinkedListNode next;
  LinkedListNode prev;
  String data;

  LinkedListNode(String new_data) {
    this.data = new_data;
    this.prev = null;
    this.next = null;
  }

  void set_prev(LinkedListNode other){
    this.prev = other;
    if (other != null) {
      other.prev = this;
    }
  }
}
```

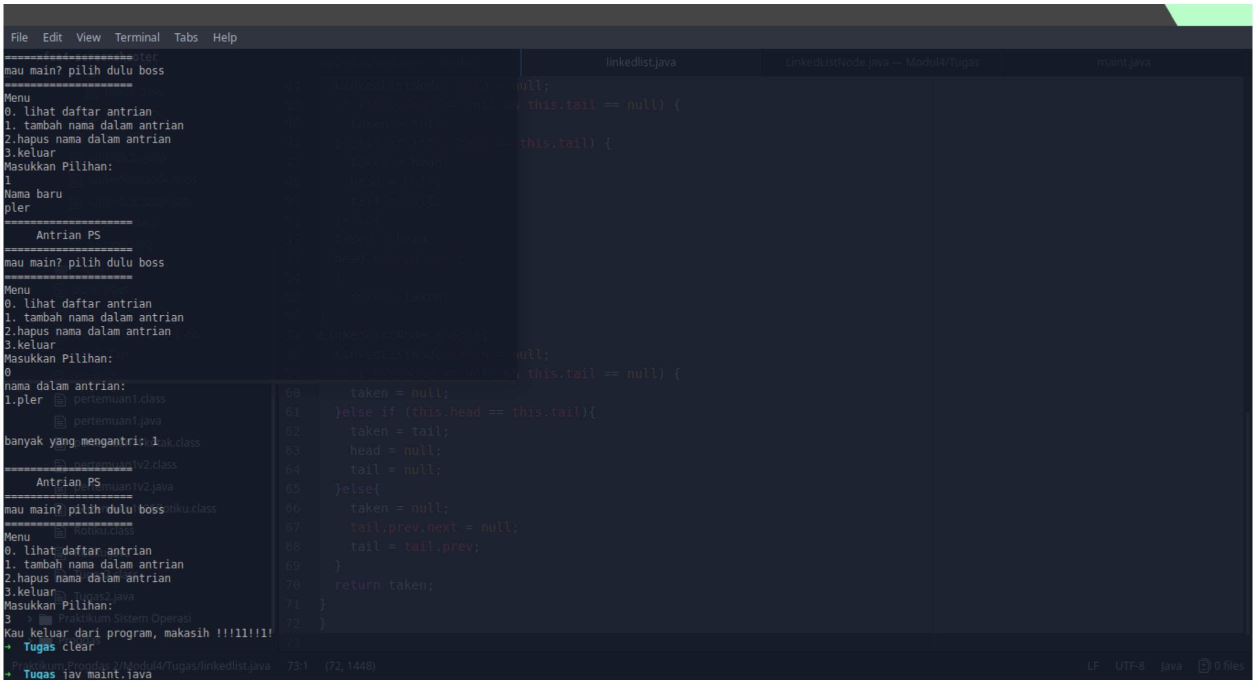
3.

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

```java

public class maint {
    public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      Scanner pl = new Scanner(System.in);
      linkedlist z = new linkedlist();
      System.out.println();
      int x = 0 ;
      do{
        System.out.println("====================");
        System.out.println("     Antrian PS");
        System.out.println("====================");
        System.out.println("mau main? pilih dulu boss");
        System.out.println("====================");
        System.out.println("Menu \n0. lihat daftar antrian \n1. tambah nama dalam antrian \n2.hapus nama dalam antrian \n3.keluar");
        System.out.println("Masukkan Pilihan: ");
        String masuk = sc.next();
        if (masuk.equals("0")){
          System.out.println("nama dalam antrian: ");
          z.print();
          System.out.println("");
          System.out.print("banyak yang mengantri: ");
          System.out.print(z.size());
          System.out.print("\n\n");
          x = x + 1;
        }else if(masuk.equals("1")){
          System.out.println("Nama baru ");
          String nama = pl.next();
          z.push(new LinkedListNode(nama));
          x = x + 1;
        }else if (masuk.equals("2")){
          if(z.size() >= 1){
            z.print();
            System.out.println("nama dalam antrian yang dihapus: ");
            System.out.println(z.qpop().data);
          } else if  (z.size() == 0){
            System.out.println("Data kosong, tidak ada yang dihapus");
          }
          x = x + 1;
        }else if (masuk.equals("3")){
          x = 0;
        }else{
          System.out.println("Error");
          System.out.println("inputan anda" + masuk);
          x = 0;
        }
      }while (x != 0);
      System.out.println("Kau keluar dari program, makasih !!!11!!1!");
    }
}
```

- Screenshot



```
====================
mau main? pilih dulu boss
====================
Menu
0. lihat daftar antrian
1. tambah nama dalam antrian
2.hapus nama dalam antrian
3.keluar
Masukkan Pilihan:
1
Nama baru
pler
====================
     Antrian PS
====================
mau main? pilih dulu boss
====================
Menu
0. lihat daftar antrian
1. tambah nama dalam antrian
2.hapus nama dalam antrian
3.keluar
Masukkan Pilihan:
0
nama dalam antrian:
1.pler

banyak yang mengantri: 1

====================
     Antrian PS
====================
mau main? pilih dulu boss
====================
Menu
0. lihat daftar antrian
1. tambah nama dalam antrian
2.hapus nama dalam antrian
3.keluar
Masukkan Pilihan:
3
Kau keluar dari program, makasih !!!11!!1!
→  Tugas clear
→  Tugas jav maint.java
```