#### **ALGORITMA STRUKTUR DATA**

# **UAS - Praktikum**

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# Kendaraan.java

# TransaksiPajak.java

```
import java.util.Scanner;

public class TransaksiPajak {
    Scanner sc = new Scanner(System.in);
    int kode, bulanBayar;
    long nominalBayar, denda;
    kendaraan kendaraan;
    kendaraan head, tail;
    int size;

public TransaksiPajak() {
    this.head = null;
    this.size = 0;
    }

public TransaksiPajak(int kode, long nominalBayar, long denda, int bulanBayar) {
    this.size = 0;
    }

public TransaksiPajak(int kode, long nominalBayar, long denda, int bulanBayar) {
    this.honinalBayar = nominalBayar;
    this.honinalBayar = nominalBayar;
    this.bulanBayar = bulanBayar;
    this.bulanBayar = bulanBayar;
    }

public boolean isEmpty() {
    return head == null;
}
```

```
head = data;
tail = data;
    data.next = head;
head.prev = data;
head = data;
public void addLast(Kendaraan data) {
  } else {
  tail.next = data;
    tail = data;
System.out.println("DAFTAR KENDARAAN");
  System.out.println(current);
    System.out.println("Kendaraan kosong");
  Kendaraan tmp = head;
    index++:
    if (tmp.cc <= 100) {
  nominalBayar = 100_000 * tmp.bulanHarusBayar;</pre>
    } else if (tmp.cc > 100 && tmp.cc <= 250) {
nominalBayar = 250_000 * tmp.bulanHarusBayar;
      nominalBayar = 500_000 * tmp.bulanHarusBayar;
   if (tmp.cc <= 1000) {
    nominalBayar = 750_000 * tmp.bulanHarusBayar;
} else if (tmp.cc > 1000_000 * tmp.bulanHarusBayar;
nominalBayar = 1_000_000 * tmp.bulanHarusBayar;
      nominalBayar = 1_500_000 * tmp.bulanHarusBayar;
  if (tmp.bulanHarusBayar < bulanBayar) {
  int terlambat = bulanBayar - tmp.bulanHarusBayar;
  if (terlambat <= 3) {</pre>
    } else {
  denda = 50_000 * terlambat;
    System.out.println(denda);
```

```
public static void main(String[] args) throws Exception {
    Scanner sc = new Scanner(System.in);
    Kendaraan[] kendaraan = {
           new Kendaraan("S 4567 YV", "Basko", "Mobil", 2000, 2012, 4),
new Kendaraan("N 4511 VS", "Arta", "Mobil", 2500, 2015, 3),
new Kendaraan("AB 4321 A", "Wisnu", "Motor", 125, 2010, 2),
new Kendaraan("B 1234 AG", "Sisa", "Motor", 150, 2020, 1),
     for (Kendaraan k : kendaraan) {
      tp.addLast(k);
      System.out.println("Menu");
       switch (pilih) {
          case 1:
            tp.print();
          case 2:
  int kode = 0;
  System.out.println("------");
  System.out.println("Masukkan Data Pembayaran");
  System.out.println("-----");
  System.out.print("Masukkan nomor TNBK: ");
  String noTNKB = sc.nextLine();
  System.out.print("Bulan bayar: ");
  int bulanBayar = sc.nextInt();
  cs.nextLine();
               tp.bayarPajak(kode, noTNKB, bulanBayar);
```

# Output:

```
Menu
1. Daftar Kendaraan
2. Bayar Pajak
3. Tampilkan seluruh transaksi
4. Urutkan transaksi berdasarkan nama pemilik
5. Keluar
Pilih(1-5): 1
DAFTAR KENDARAAN
| Nama Pemilik | Jenis | CC Kendaraan
No TNKB
                                                   | Tahun | Bulan harus bayar
             | Basko
| Arta
                               | Mobil | 2000
| Mobil | 2500
 S 4567 YV
                                                       2012
 N 4511 VS
                                                       2015
                                                             3
                                                            | 2
 AB 4321 A
              Wisnu
                                Motor | 125
                                                       2010
 B 1234 AG
               Sisa
                                Motor | 150
                                                       2020
                                                            | 1
```

```
Pilih(1-5): 2

Masukkan Data Pembayaran

Masukkan nomor TNBK: AB 4321 A
Bulan bayar: 6
1
AB 4321 A
Wisnu
Motor
125
700000
200000
```