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MATERI :

## LAPORAN PRAKTIKUM ALGORITMA DAN STRUKTUR DATA

\*FILE NAME =ABSEN\_NAME \_CLASS\_P1\*

\* Pertemuan mengikuti pertemuan ke berapa

### 2. 1. Pemilihan

```
src > Kuis2_04_1C_AqsaHerry > Buku04.java > Buku04
package Kuis2_04_1C_AqsaHerry;

public class Buku04 {
    String kodeBuku;
    String judulBuku;
    int stok;
    Node04 head;
    public Buku04(String kdBk, String JdBk, int stok){
        this.judulBuku = JdBk;
        this.kodeBuku = kdBk;
        this.stok = stok;
    }

    public void DataBuku04(){
        System.out.println(x:"=====");
        System.out.println("Kode buku: " + kodeBuku);
        System.out.println("Judul buku: " + judulBuku);
        System.out.println("Stok: " + stok);
    }

    Run[Debug]
    public static void main(String[] args) {
        Buku04 buku1 = new Buku04(kdBk:"BK-05", JdBk:"Rekayasa perangkat lunak", stok:5);
        Buku04 buku2 = new Buku04(kdBk:"BK-04", JdBk:"Basic Pemrograman", stok:3);
        Buku04 buku3 = new Buku04(kdBk:"BK-03", JdBk:"Desain Website Interaktif", stok:5);
        Buku04 buku4 = new Buku04(kdBk:"BK-02", JdBk:"Merancang Basis data sederhana", stok:1);
        Buku04 buku5 = new Buku04(kdBk:"BK-01", JdBk:"Algoritma Struktur data", stok:5);
    }
}
```

```
package Kuis2_04_1C_AqsaHerry;

public class Node04 {
    int data;
    String name;
    Node04 prev, next;

    Node04(Node04 prev, int data, String name, Node04 next){
        this.name = name;
        this.next = next;
        this.prev = prev;
        this.data = data;
    }
}
```



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```
public class Antrain04 {  
    Node04 head;  
    int size;  
    public Antrain04(){  
        head = null;  
        size = 0;  
    }  
  
    boolean isEmpty04() {  
        return head == null;  
    }  
  
    public void addFirst04(String item, String name) {  
        if (isEmpty04()) {  
            Node04 newNode = new Node04(prev:null, size, name, next:null);  
            head = newNode;  
        } else {  
            Node04 newNode = new Node04(prev:null, size, name, next:null);  
            head.prev = newNode;  
            head = newNode;  
        }  
        size++;  
    }  
}
```

```
public void print04() {  
    if (!isEmpty04()) {  
        Node04 tmp = head;  
        while (tmp != null) {  
            System.out.println(tmp.data + ". " + tmp.name);  
            tmp = tmp.next;  
        }  
        System.out.println("\nSisa antrian: " + size);  
    } else {  
        System.out.println(x:"Linked List Kosong");  
    }  
}  
  
public int getSize04() {  
    return size;  
}  
  
public void removeFirst04() throws Exception {  
    if (isEmpty04()) {  
        throw new Exception(message:"Linked list masih kosong, tidak dapat dihapus");  
    } else {  
        head = head.next;  
        if (head != null) {  
            head.prev = null;  
        }  
        size--;  
    }  
}
```

```
public class Anggota04 {  
    String KodeAnggota;  
    String NamaAnggota;  
    String NoHp;  
    Anggota04(String kd, String nm, String NoHp){  
        this.KodeAnggota =kd;  
        this>NamaAnggota=nm;  
        this.NoHp=NoHp;  
    }  
}
```



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```
import java.util.*;
Scanner sc = new Scanner(System.in);
int choice;

do {
    System.out.println(x:"\nMenu:");
    System.out.println(x:"1. Tambah Antrian");
    System.out.println(x:"2. Print Antrian");
    System.out.println(x:"3. Delete Antrian");
    System.out.println(x:"4. Stok buku paling sedikit");
    System.out.println(x:"5. Keluar");
    System.out.print(s:"Pilihan: ");
    choice = sc.nextInt();
    sc.nextLine();
} while (choice != 5);

switch (choice) {
    case 1:
        System.out.println(x:"Kode Anggota: ");
        String KD = sc.nextLine();
        System.out.println(x:"Nama Anggota: ");
        String nm = sc.nextLine();
        System.out.println(x:"NoHP: ");
        String NoHp = sc.nextLine();
        queue.addFirst04(KD, nm);
        System.out.println(nm + " berhasil ditambahkan. Sisa antrian: " + queue.getSize04());
        break;

```

```

    case 2:
        queue.print04();
        break;

    case 3:
        String removedName = queue.head.name;
        queue.removeFirst04();
        System.out.println(removedName + " telah meminjam buku. Sisa antrian: " + queue.getSize04());
        break;

    case 4:
        System.out.println(x:"Belum jadi");

        break;

    case 5:
        System.out.println(x:"Keluar dari program");
        break;
    default:
        System.out.println(x:"Invalid Option");
        break;
}

} while (choice != 5);
```



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```
Menu:
1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar
Pilihan: 1
Kode Anggota:
123
Nama Anggota:
saya
NoHP:
890
saya berhasil ditambahkan. Sisa antrian: 1

Menu:
1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar
Pilihan: 
```

```
Menu:
1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar
Pilihan: 2
0. saya

Sisa antrian: 1
```

```
Menu:
1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar
Pilihan: 3
mereka telah meminjam buku. Sisa antrian: 3

Menu:
1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar
Pilihan: 
```



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Menu:

1. Tambah Antrian
2. Print Antrian
3. Delete Antrian
4. Stok buku paling sedikit
5. Keluar

Pilihan: 4

Belum jadi