



NAMA : FAHRI ZANUAR PRADIAN
NIM : 2341720104
NO ABSEN : 10
KELAS : TI-1C
MATERI : KUIS 2

LAPORAN KUIS 2 ALGORITMA DAN STRUKTUR DATA

Class Anggota10

```
1 package Kuis2_10_1C_FahriZanuarPradian;  
2  
3 public class Anggota10 {  
4     String kodeAnggota, namaAnggota, noHp;  
5  
6     public Anggota10(String kd, String nm, String noHp) {  
7         this.kodeAnggota = kd;  
8         this.namaAnggota = nm;  
9         this.noHp = noHp;  
10    }  
11  
12 }  
13
```

Class Antrian10

```
1 package Kuis2_10_1C_FahriZanuarPradian;  
2  
3 public class Antrian10 {  
4     int noAntrian;  
5     Anggota10 peminjam;  
6  
7     public Antrian10(int noAntrian, Anggota10 peminjam) {  
8         this.noAntrian = noAntrian;  
9         this.peminjam = peminjam;  
10    }  
11  
12 }  
13
```



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ClassMain10

```
1 package Kuis2_10_1C_FahriZanuarPradian;
2
3 import java.util.Scanner;
4
5 public class AntrianMain10 {
6     public static void main(String[] args) {
7         Scanner input10 = new Scanner(System.in);
8         Scanner inputstr10 = new Scanner(System.in);
9         int pilih = 0;
10        DoubleLinkedList10 dll = new DoubleLinkedList10();
11        dll.addLast10("agt01", "MamLuatul", "08224500000");
12        dll.addLast10("agt05", "Abyaz A.M", "08224511111");
13        dll.addLast10("agt07", "Yoshinoya", "08224522222");
14
15        dll.addBuku10("BK-01", "Algoritma Struktur Data", 5);
16        dll.addBuku10("BK-02", "Merancang Basis Data Sederhana", 5);
17        dll.addBuku10("BK-03", "Desain Website Interaktif", 5);
18        dll.addBuku10("BK-04", "Basic Pemrograman Komputer", 5);
19        dll.addBuku10("BK-05", "Rekayasa Perangkat Lunak", 5);
20
21        do {
22            System.out.println("\n=====");
23            System.out.println("Menu");
24            System.out.println("1. Add Antrian");
25            System.out.println("2. Print Antrian");
26            System.out.println("3. Delete Antrian");
27            System.out.println("4. Stock Buku Paling Sedikit");
28            System.out.println("5. Exit");
29            System.out.println("=====");
30            System.out.print("Select Menu (1-5): ");
31            pilih = input10.nextInt();
32            System.out.println("\n=====");
33            switch (pilih) {
34                case 1:
35                    System.out.println("Input Data Antrian");
36                    System.out.println("=====");
37                    System.out.println("Nomor Antrian\t\t: "+(dll.nomorAntrian+1));
38                    System.out.print("Kode Anggota\t\t: ");
39                    String kode = inputstr10.nextLine();
40                    System.out.print("Nama Anggota\t\t: ");
41                    String nama = inputstr10.nextLine();
42                    System.out.print("Nomor HP\t\t: ");
43                    String noHp = inputstr10.nextLine();
44                    dll.addLast10(kode, nama, noHp);
45                    break;
46                case 2:
47                    System.out.println("Daftar Antrian");
48                    System.out.println("=====");
49                    dll.print10();
50                    break;
51                case 3:
52                    System.out.println("Anggota "+dll.head.anggota.kodeAnggota+" Meminjam Buku.");
53                    dll.printBuku10();
54                    System.out.println("=====");
55                    System.out.println("Peminjaman Buku");
56                    System.out.println("=====");
57                    System.out.print("Masukkan Kode Buku: ");
58                    String kodePinjam = inputstr10.nextLine();
59                    System.out.println("\n=====");
60
61                    int posisi = dll.cariBuku10(kodePinjam);
62                    if (posisi != -1) {
63                        System.out.println("=====");
64                        System.out.println("Data "+kodePinjam+" Berada Pada Inxex ke-"+posisi);
65                        System.out.println("=====");
66                        System.out.print("Masukkan Jumlah Pinjam: ");
67                        int jumlahPinjam = input10.nextInt();
68                        dll.pinjamBuku10(posisi, jumlahPinjam);
69                        System.out.println("=====");
70                        dll.removeFirst10();
71                    }
72                    break;
73                case 4:
74                    System.out.println("Stock Terkecil");
75                    dll.stockTerkecil10();
76                    break;
77                case 5:
78                    break;
79                default:
80                    break;
81            }
82        } while (pilih != 5);
83    }
84 }
85 }
86 }
```



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Class Buku10

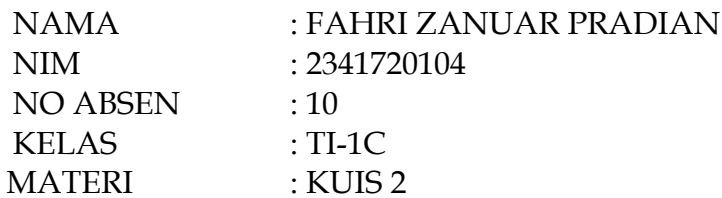
```
1 package Kuis2_10_1C_FahriZanuarPradian;
2
3 public class Buku10 {
4     String kodeBuku, judulBuku;
5     int stock;
6
7     public Buku10(String kodeBuku, String judulBuku, int stock) {
8         this.kodeBuku = kodeBuku;
9         this.judulBuku = judulBuku;
10        this.stock = stock;
11    }
12
13 }
14
```

Class Node10

```
1 package Kuis2_10_1C_FahriZanuarPradian;
2
3 public class Node10 {
4     Antrian10 antrian;
5     Anggota10 anggota;
6     Node10 prev, next;
7
8     public Node10(Node10 prev, String kode, String nama, String nohp, int nomorAntrian, Node10 next) {
9         this.prev = prev;
10        this.next = next;
11        this.anggota = new Anggota10(kode, nama, nohp);
12        this.antrian = new Antrian10(nomorAntrian, anggota);
13    }
14 }
15
```

Class NodeBuku10

```
1 package Kuis2_10_1C_FahriZanuarPradian;
2
3 public class NodeBuku10 {
4     NodeBuku10 prev, next;
5     Buku10 buku;
6
7     public NodeBuku10(NodeBuku10 prev, String kode, String judul, int stock, NodeBuku10 next) {
8         this.prev = prev;
9         this.next = next;
10        this.buku = new Buku10(kode, judul, stock);
11    }
12
13 }
14
```





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Hasil Run

1. Tambah Antrian

```
=====
Menu
1. Add Antrian
2. Print Antrian
3. Delete Antrian
4. Stock Buku Paling Sedikit
5. Exit
=====
Select Menu (1-5): 1

=====
Input Data Antrian
=====
Nomor Antrian      : 4
Kode Anggota       : agt10
Nama Anggota       : Lee Min Ho
Nomor HP           : 0876545678762
```

2. Cetak Antrian

```
Menu
1. Add Antrian
2. Print Antrian
3. Delete Antrian
4. Stock Buku Paling Sedikit
5. Exit
=====
Select Menu (1-5): 2

=====
Daftar Antrian
=====
|Nomor antrian      |Kode Agt      |Customer Name      |Telephone
|1                  |agt01         |Mamluatul          |08224500000
|2                  |agt05         |Abyaz A.M          |08224511111
|3                  |agt07         |Yoshinoya          |08224522222
|4                  |agt10         |Lee Min Ho         |0876545678762
Jumlah Antrian: 4
```

3. Hapus Antrian

```
Menu
1. Add Antrian
2. Print Antrian
3. Delete Antrian
4. Stock Buku Paling Sedikit
5. Exit
=====
Select Menu (1-5): 3

=====
Anggota agt01 Meminjam Buku.
+++++
Daftar Buku Di Perpustakaan
+++++
|Kode Buku          |Judul Buku          |Stock
|BK-01              |Algoritma Struktur Data          |5
|BK-02              |Merancang Basis Data Sederhana   |5
|BK-03              |Desain Website Interaktif        |5
|BK-04              |Basic Pemrograman Komputer       |5
|BK-05              |Rekayasa Perangkat Lunak        |5
Sukses Cetak Buku
```



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```
=====
Peminjaman Buku
=====
Masukkan Kode Buku: Bk-04

=====
Data Bk-04 Berada Pada Incek ke-3
=====
Masukkan Jumlah Pinjam: 2
Data Buku Yang Dipinjam
Kode      : BK-04
Judul     : Basic Pemrograman Komputer
stock    : 3
=====
```

```
=====
Peminjaman Buku
=====
Masukkan Kode Buku: BK-02

=====
Data BK-02 Berada Pada Incek ke-1
=====
Masukkan Jumlah Pinjam: 3
Data Buku Yang Dipinjam
Kode      : BK-02
Judul     : Merancang Basis Data Sederhana
stock    : 2
=====
```

2 anggota yang meminjam buku sehingga antrian tersisa 2

```
Menu
1. Add Antrian
2. Print Antrian
3. Delete Antrian
4. Stock Buku Paling Sedikit
5. Exit
=====
Select Menu (1-5): 2

=====
Daftar Antrian
=====
|Nomor antrian|Kode Agt|Customer Name|Telephone|
|3            |agt07   |Yoshinoya    |08224522222|
|4            |agt10   |Lee Min Ho   |08765678765622|
Jumlah Antrian: 2
```

4. Stock Buku Paling Sedikit

Buku yang dipinjam ialah BK-04(2 buah) dan BK-02 (3 buah)

```
Menu
1. Add Antrian
2. Print Antrian
3. Delete Antrian
4. Stock Buku Paling Sedikit
5. Exit
=====
Select Menu (1-5): 4

=====
Stock Terkecil
Data:
Kode      : BK-02
Judul     : Merancang Basis Data Sederhana
=====
```