

NAMA : JIHAN HAFIZAH ARIYANI
NIM : 2009106038
KELAS : INFORMATIKA A 2020
PRAKTIKUM : PBO
TUGAS : POSTTEST 3

Bagian "Main.Java"

```
package posttest3;

import java.util.Scanner;
import java.util.ArrayList;

public class Main {

    public static int isJudulExist(ArrayList<Novel> novel, String Judul){
        for(int i=0; i<novel.size(); i++){
            if(novel.get(i).getJudul().equalsIgnoreCase(Judul)){
                return i;
            }
        }
        return -1;
    }

    public static void main(String[] args){
        ArrayList<Novel> novel = new ArrayList<Novel>();
        Scanner input = new Scanner(System.in);
        int menu, index;
        String Judul;

        do{
            System.out.println("NAMA : Jihan Hafizah Ariyani");
            System.out.println("NIM : 2009106038");
```

```

System.out.println("KELAS : Informatika A 2020");
System.out.println("");
System.out.println("");
System.out.println("== SISTEM MANAJEMEN BUKU NOVEL ==");
System.out.println("[1] Create Buku Novel");
System.out.println("[2] Read Buku Novel");
System.out.println("[3] Update Buku Novel");
System.out.println("[4] Delete Buku Novel");
System.out.println("[5] Keluar");
System.out.println("-----");
do{
    System.out.print("Pilih menu> ");
    menu = Integer.parseInt(input.nextLine());
}while(menu < 1 || menu > 5);

switch(menu){
    case 1:{
        Novel baru = new Novel();

        System.out.println("Input Data Baru");
        System.out.println("-----");
        System.out.print("Masukkan Nama Novel : ");
        baru.setJudul(input.nextLine());

        System.out.print("Masukkan Nama Penulis : ");
        baru.setPenulis(input.nextLine());

        System.out.print("Masukkan Nama Penerbit : ");
        baru.setPenerbit(input.nextLine());
    }
}

```

```
System.out.print("Masukkan Jumlah Halaman : ");  
baru.setHalaman(Integer.parseInt(input.nextLine()));
```

```
System.out.print("Masukkan Tahun Terbit : ");  
baru.setTahun(Integer.parseInt(input.nextLine()));
```

```
if(isJudulExist(novel, baru.getJudul()) == -1){  
    novel.add(baru);  
    System.out.println("Novel "+baru.getJudul()+" Berhasil ditambahkan!");  
}else{  
    System.out.println("Novel "+baru.getJudul()+" Gagal ditambahkan!");  
}
```

```
break;
```

```
}
```

```
case 2:{
```

```
    System.out.println("Lihat List Novel");
```

```
    System.out.println("-----");
```

```
    if(novel.size() != 0){
```

```
        for(int i=0; i<novel.size(); i++){
```

```
            System.out.println("[Novel "+(i+1)+"]");
```

```
            novel.get(i).showNovel();
```

```
            if(i < novel.size()-1){
```

```
                System.out.println("");
```

```
            }
```

```
        }
```

```
    }else{
```

```
        System.out.println("Tidak ada List Novel");
```

```
}  
break;  
}
```

```
case 3:{
```

```
    System.out.println("Edit Data Novel");
```

```
    System.out.println("-----");
```

```
    if(novel.size() != 0){
```

```
        System.out.print("Masukkan Novel yang ingin diedit : ");
```

```
        Judul = input.nextLine();
```

```
        index = isJudulExist(novel, Judul);
```

```
        if(index != -1){
```

```
            Novel baru = new Novel();
```

```
            System.out.print("Masukkan Nama Novel Terbaru : ");
```

```
            baru.setJudul(input.nextLine());
```

```
            System.out.print("Masukkan Nama Penulis Terbaru : ");
```

```
            baru.setPenulis(input.nextLine());
```

```
            System.out.print("Masukkan Nama Penerbit Terbaru : ");
```

```
            baru.setPenerbit(input.nextLine());
```

```
            System.out.print("Masukkan Jumlah Halaman Terbaru : ");
```

```
            baru.setHalaman(Integer.parseInt(input.nextLine()));
```

```
            System.out.print("Masukkan Tahun Terbit Terbaru : ");
```

```
            baru.setTahun(Integer.parseInt(input.nextLine()));
```

```
            novel.set(index, baru);
```



```

        case 5:{
            System.out.println("Keluar dari Program...");
            System.out.println("...TERIMA KASIH !...");
            break;
        }
    }

    if(menu != 5){
        System.out.println("");
    }
}while(menu != 5);
}
}

```

Bagian “Novel.java”

```

package posttest3;

public class Novel {
    private String Judul;
    private String Penulis;
    private String Penerbit;
    private int Halaman;
    private int Tahun;

    public Novel(){

    }

    public Novel(String Judul, String Penulis, String Penerbit, int Halaman, int Tahun) {
        this.Judul = Judul;
    }
}

```

```
    this.Penulis = Penulis;  
    this.Penerbit = Penerbit;  
    this.Halaman = Halaman;  
    this.Tahun = Tahun;  
}
```

```
public void showNovel(){  
    System.out.println("Nama Novel : "+Judul);  
    System.out.println("Penulis   : "+Penulis);  
    System.out.println("Penerbit  : "+Penerbit);  
    System.out.println("Tahun    : "+Tahun);  
    System.out.println("Halaman  : "+Halaman);  
}
```

```
public String getJudul() {  
    return Judul;  
}
```

```
public void setJudul(String Judul) {  
    this.Judul = Judul;  
}
```

```
public String getPenulis() {  
    return Penulis;  
}
```

```
public void setPenulis(String Penulis) {  
    this.Penulis = Penulis;  
}
```

```
public String getPenerbit() {  
    return Penerbit;  
}
```

```
public void setPenerbit(String Penerbit) {  
    this.Penerbit = Penerbit;  
}
```

```
public int getHalaman() {  
    return Halaman;  
}
```

```
public void setHalaman(int Halaman) {  
    this.Halaman = Halaman;  
}
```

```
public int getTahun() {  
    return Tahun;  
}
```

```
public void setTahun(int Tahun) {  
    this.Tahun = Tahun;  
}
```

```
}
```


OUTPUT :

```
Output - posttest3 (run) x
run:
NAMA : Jihan Hafizah Ariyani
NIM : 2009106038
KELAS : Informatika A 2020

== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 1
Input Data Baru
-----
Masukkan Nama Novel : Septihan
Masukkan Nama Penulis : Poppi Pertiwi
Masukkan Nama Penerbit : Coconut Books
Masukkan Jumlah Halaman : 400
Masukkan Tahun Terbit : 2020
Novel Septihan Berhasil ditambahkan!

NAMA : Jihan Hafizah Ariyani
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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 2
Lihat List Novel
-----
[Novel 1]
Nama Novel : Septihan
Penulis : Poppi Pertiwi
Penerbit : Coconut Books
Tahun : 2020
Halaman : 400

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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 3
Edit Data Novel
-----
Masukkan Novel yang ingin diedit : Septihan
Masukkan Nama Novel Terbaru : Alaska
Masukkan Nama Penulis Terbaru : Nissaftm
Masukkan Nama Penerbit Terbaru : Lovemedia
Masukkan Jumlah Halaman Terbaru : 300
Masukkan Tahun Terbit Terbaru : 2019
```

```
package poveltest3

Output - posttest3 (run) x
[5] Keluar
-----
Pilih menu> 3
Edit Data Novel
-----
Masukkan Novel yang ingin diedit : Septihan
Masukkan Nama Novel Terbaru : Alaska
Masukkan Nama Penulis Terbaru : Nisaafm
Masukkan Nama Penerbit Terbaru : Lovemedia
Masukkan Jumlah Halaman Terbaru : 300
Masukkan Tahun Terbit Terbaru : 2019
Novel berhasil diedit!

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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 2
Lihat List Novel
-----
[Novel 1]
Nama Novel : Alaska
Penulis : Nisaafm
Penerbit : Lovemedia
Tahun : 2019
Halaman : 300

NAMA : Jihan Hafizah Ariyani
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Output - posttest3 (run) x
NAMA : Jihan Hafizah Ariyani
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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 4
Hapus Data Novel
-----
Masukkan Novel yang ingin dihapus : Alaska
Novel Alaska Berhasil dihapus!

NAMA : Jihan Hafizah Ariyani
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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 2
Lihat List Novel
-----
Tidak ada List Novel

NAMA : Jihan Hafizah Ariyani
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```

```
Output - posttest3 (run) x
[5] Keluar
-----
Pilih menu> 4
Hapus Data Novel
-----
Masukkan Novel yang ingin dihapus : Alaska
Novel Alaska berhasil dihapus!

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== SISTEM MANAJEMEN BUKU NOVEL ==
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu> 2
Lihat List Novel
-----
Tidak ada List Novel

NAMA : Jihan Hafizah Ariyani
NIM : 2009106038
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-- SISTEM MANAJEMEN BUKU NOVEL --
[1] Create Buku Novel
[2] Read Buku Novel
[3] Update Buku Novel
[4] Delete Buku Novel
[5] Keluar
-----
Pilih menu>
```