UTS OBJECT ORIENTED PROGRAMMING

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POLITEKNIK HARAPAN BERSAMA KOTA TEGAL

D1V TEKNIK INFORMATIKA

"APLIKASI JAVA"

```java
package project;

import java.util.LinkedList;
import java.util.Scanner;
import project.model.*;
import project.service.*;

public class Aplikasi {

    private static Scanner scanner;
    private static SmartphoneService service;
    private static String MerekSmartphone;
    private static String IdBarang;
    private static String Seri;

    public static void main(String args[]) {
        int opsi = 0;
        scanner = new Scanner(System.in);
        service = new SmartphoneService();

        do {
            cetakMenu();
            opsi = scanner.nextInt();
            switch(opsi) {
                case 1 :
                    modulAdd();
                    break;
                case 2 :
                    ubahData(); break;
```

```java
            case 3 :

              hapusData(); break;

            case 4 :

              tampilData();

              break;

          }

      } while(opsi != 0);



  }



  private static void cetakMenu() {

      System.out.println("\n\n");

      System.out.println("APLIKASI PEREKAMAN DATA MAHASISWA");

      System.out.println("1. Tambah Data");

      System.out.println("2. Ubah Data");

      System.out.println("3. Hapus Data");

      System.out.println("4. Tampilkan data");

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

      System.out.println("0. KELUAR");

      System.out.println("\n");

      System.out.print("Pilihan > ");

  }



  private static void modulAdd(){

      String nim, nama, kelas;



      System.out.println("--- tambah data ---");

      System.out.print("MerekSmartphone : ");

      scanner = new Scanner(System.in);

      MerekSmartphone = scanner.nextLine();

      System.out.print("IdBarang : ");
```

```java
            IdBarang = scanner.nextLine();

            System.out.print("Seri : ");

            Seri = scanner.nextLine();

            service.addData(new Smartphone(MerekSmartphone, IdBarang, Seri));


    }


    private static void tampilData() {

        LinkedList<Smartphone> result = (LinkedList<Smartphone>) service.getAllData();


        int i=1;

        for(Smartphone spn : result) {

            System.out.println("data ke-" + i++);

            System.out.println("  MerekSmartphone: " + spn.getMerekSmartphone());

            System.out.println("  IdBarang: " + spn.getIdBarang());

            System.out.println("  Seri: " + spn.getSeri());

        }

    }


    private static void ubahData() {

        String MerekSmartphone, IdBarang, Seri;


        System.out.println("--- perubahan data ---");

        System.out.print("MerekSmartphone : ");

        scanner = new Scanner(System.in);

        MerekSmartphone = scanner.nextLine();

        System.out.print("IdBarang : ");

        IdBarang = scanner.nextLine();

        System.out.print("Seri : ");

        Seri = scanner.nextLine();

        service.updateData(new Smartphone(MerekSmartphone, IdBarang, Seri));
```

```java
    }

    private static void hapusData() {
        String IdBarang;

        System.out.println("--- hapus data ---");
        System.out.print("IdBarang : ");
        scanner = new Scanner(System.in);
        IdBarang = scanner.nextLine();
        service.deleteData(new Smartphone(IdBarang, null, null));
    }
```

"SMARTPHONE JAVA"

```java
}
package project.model;

public class Smartphone {

    private String MerekSmartphone;
    private String IdBarang;
    private String Seri;

    public Smartphone() {}

    public Smartphone(String MerekSmartphone, String IdBarang, String Seri) {
        this.MerekSmartphone = MerekSmartphone;
        this.IdBarang = IdBarang;
        this.Seri = Seri;
    }

    @Override
```

```java
public boolean equals(Object obj) {

    Smartphone spn = (Smartphone) obj;

    if(this.IdBarang.equals(spn.getIdBarang())) return true;

    else return false;

}


@Override
public String toString() {

    return "[ " + MerekSmartphone + ", " + IdBarang + ", " + Seri + " ];";

}


public String getMerekSmartphone() {

    return MerekSmartphone;

}


public void setMerekSmartphone(String MerekSmartphone) {

    this.MerekSmartphone = MerekSmartphone;

}


public String getIdBarang() {

    return IdBarang;

}


public void setIdBarang(String IdBarang) {

    this.IdBarang = IdBarang;

}


public String getSeri() {

    return Seri;

}
```

```java
    public void setSeri(String Seri) {

        this.Seri = Seri;

    }


}
```

"SMARTPHONE SERVICE JAVA"

```java
package project.service;


import java.util.LinkedList;

import java.util.List;


import project.model.Smartphone;


public class SmartphoneService {


    private static List<Smartphone> data = new LinkedList<>();


    public void addData(Smartphone spn) {

        data.add(spn);

        System.out.println("data telah tersimpan");

    }


    public void updateData(Smartphone spn) {

        int result = data.indexOf(spn);


        if(result >= 0) {

            data.set(result, spn);

            System.out.println("data telah diubah");

        } else {

            System.out.println("data yang ingin diubah tidak ditemukan");
```
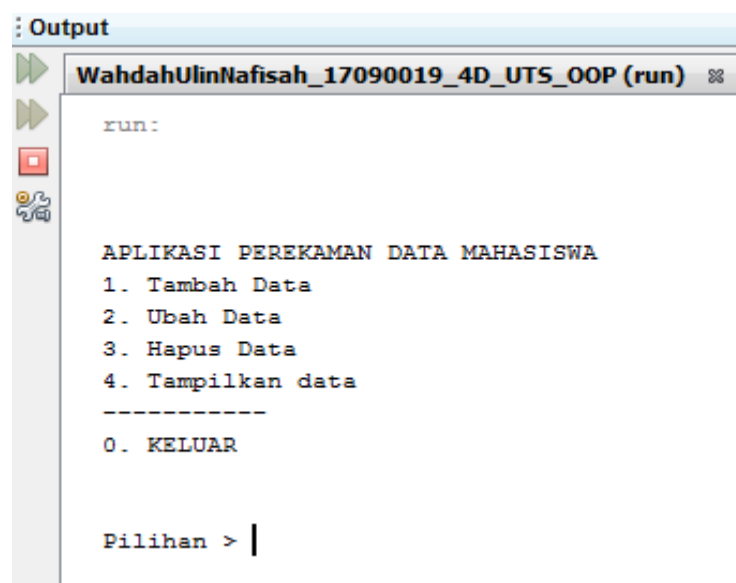
```java
        }
    }


    public void deleteData(Smartphone spn) {
        int result = data.indexOf(spn);


        if(result >= 0) {
            data.remove(result);
            System.out.println("data telah terhapus");
        } else {
            System.out.println("Data yang ingin dihapus tidak ada");
        }
    }


    public List<Smartphone> getAllData() {
        return data;
    }
}
```

"HASIL"