Dokumentasi Praktikum PBO 2

Mata Kuliah	:	PBO - TI - S1
Pertemuan	:	2
NIM	:	A11.2021.13254
Nama	:	Yohanes Dimas Pratama

Contoh Program Class & Objek

Hasil Program:

```
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2> cd "c:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2
 - Class & Object\Praktikum 2\" ; if ($?) { javac TestMobil.java } ; if ($?) { java TestMobil }
Maju...
Mundur...
Belok...
Roda: 4
Mesin: 1
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2>
```

Code Program:

*Mobil.java

```java
public class Mobil {
    int roda = 4;
    int body = 1;
    int mesin = 1;
    void maju() {
        System.out.println("Maju...");
    }
    void mundur() {
        System.out.println("Mundur...");
    }
    void belok() {
        System.out.println("Belok...");
    }
}
```

*TestMobil.java

```java
public class TestMobil {
    public static void main(String[] args) {
        Mobil avanza = new Mobil();
        avanza.maju();
        avanza.mundur();
        avanza.belok();
```

```
        System.out.println("Roda: " + avanza.roda);
        System.out.println("Mesin: " + avanza.mesin);
    }
}
```

Latihan 1

Hasil Program:

```
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2> cd "c:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2
 - Class & Object\Praktikum 2\" ; if ($?) { javac MobilDemo2.java } ; if ($?) { java MobilDemo2 }
Mobil Honda Civic hidup
Gigi mobil Honda Civic diubah
Maju
Belok
Mundur
Roda mobil Honda Civic adalah 4
Mesin mobil Honda Civic adalah 1500
Body mobil Honda Civic adalah 2
Mobil Toyota Innova hidup
Gigi mobil Toyota Innova diubah
Maju
Belok
Mundur
Roda mobil Toyota Innova adalah 4
Mesin mobil Toyota Innova adalah 2400
Body mobil Toyota Innova adalah 5
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2>
```

Code Program:

*Mobil2.java

```
public class Mobil2 {
    private int roda = 4;
    private int body = 1;
    String nama;
    int mesin = 1;
    void maju() {
        System.out.println("Maju");
    }
    void mundur() {
        System.out.println("Mundur");
    }
    void belok() {
        System.out.println("Belok");
    }
    void hidupkan_mobil(String nama) {
        System.out.println("Mobil " + nama + " hidup");
    }
    void matikan_mobil(String nama) {
        System.out.println("Mobil " + nama + " mati");
    }
```

```
    void ubah_gigi(String nama) {
        System.out.println("Gigi mobil " + nama + " diubah");
    }

    void set_roda (int roda) {
        this.roda = roda;
    }
    int get_roda() {
        return roda;
    }

    void set_body (int body) {
        this.body = body;
    }
    int get_body() {
        return body;
    }
}
```

*MobilDemo2.java

```
public class MobilDemo2 {
    public static void main(String[] args) {
        Mobil2 civic = new Mobil2();

        civic.nama = "Honda Civic";
        civic.hidupkan_mobil(civic.nama);
        civic.ubah_gigi(civic.nama);
        civic.maju();
        civic.belok();
        civic.mundur();

        System.out.println("Roda mobil " + civic.nama + " adalah " +
civic.get_roda());
        civic.mesin = 1500;
        System.out.println("Mesin mobil " + civic.nama + " adalah " +
civic.mesin);
        civic.set_body(2);
        System.out.println("Body mobil " + civic.nama + " adalah " +
civic.get_body());

        Mobil2 innova = new Mobil2();

        innova.nama = "Toyota Innova";
        innova.hidupkan_mobil(innova.nama);
        innova.ubah_gigi(innova.nama);
        innova.maju();
        innova.belok();
        innova.mundur();
```

```
        System.out.println("Roda mobil " + innova.nama + " adalah " +
innova.get_roda());
        innova.mesin = 2400;
        System.out.println("Mesin mobil " + innova.nama + " adalah " +
innova.mesin);
        innova.set_body(5);
        System.out.println("Body mobil " + innova.nama + " adalah " +
innova.get_body());
    }
}
```

Latihan 2

Hasil Program:

```
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2> cd "c:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2
 - Class & Object\Praktikum 2\" ; if ($?) { javac DataNilai.java } ; if ($?) { java DataNilai }
Masukkan Nama        : Yohanes Dimas Pratama
Masukkan NIM         : A11.2021.13254
Masukkan Nilai Tugas : 90
Masukkan Nilai UTS   : 85
Masukkan Nilai UAS   : 90
Nama                 : Yohanes Dimas Pratama
NIM                  : A11.2021.13254
Nilai Tugas (35%)    : 31.5
Nilai UTS (20%)      : 17.0
Nilai UAS (45%)      : 40.5
Nilai Akhir          : 89.0
PS C:\Users\LENOVO\OneDrive\Documents\Semester 4\Pemrograman Berorientasi Objek\2 - Class & Objec
t\Praktikum 2>
```

Code Program:

*DataNilai.java

```
public class DataNilai {
    public static void main(String[] args) {
        ProgramNilai nilai = new ProgramNilai();
        nilai.input();
        nilai.hitung();
        nilai.output();
    }
}
```

*ProgramNilai.java

```
import java.util.Scanner;

public class ProgramNilai {
    String nama, nim;
    float tugas, uts, uas, nilai_tugas, nilai_uts, nilai_uas, nilai_akhir;
    Scanner input = new Scanner(System.in);
```

```
    public void DataNilai(String nama, String nim, float tugas, float uts,
float uas) {
        this.nama = nama;
        this.nim = nim;
        this.tugas = tugas;
        this.uts = uts;
        this.uas = uas;
    }

    ProgramNilai() {}

    void input() {
        System.out.print("Masukkan Nama        : ");
        nama = input.nextLine();
        System.out.print("Masukkan NIM         : ");
        nim = input.nextLine();
        System.out.print("Masukkan Nilai Tugas : ");
        tugas = input.nextFloat();
        System.out.print("Masukkan Nilai UTS   : ");
        uts = input.nextFloat();
        System.out.print("Masukkan Nilai UAS   : ");
        uas = input.nextFloat();
    }

    void hitung() {
        nilai_tugas = tugas * 0.35f;
        nilai_uts = uts * 0.2f;
        nilai_uas = uas * 0.45f;
        nilai_akhir = nilai_tugas + nilai_uts + nilai_uas;
    }

    void output() {
        System.out.println("Nama                 : " + nama);
        System.out.println("NIM                  : " + nim);
        System.out.println("Nilai Tugas (35%)    : " + nilai_tugas);
        System.out.println("Nilai UTS (20%)      : " + nilai_uts);
        System.out.println("Nilai UAS (45%)      : " + nilai_uas);
        System.out.println("Nilai Akhir          : " + nilai_akhir);
    }
}
```