Mata Kuliah   : PBO – TI – S1

Praktikum   : 2

Nama   : Margareta Valencia

NIM   : A11.2022.14704

PRAKTIKUM 2

Latihan 1

Mobil2.java

```java
public class Mobil2
{
        String warna, gigi;
        int roda=4;
        int body=1;
        static int mesin=1;

        static void maju()
        {
                System.out.println("Maju.....");
        }
        void mundur()
        {
                System.out.println("Mundur.....");
        }
        void belok()
        {
                System.out.println("Belok.....");
        }
        void hidupkanMobil()
        {
                System.out.println("Hidupkan Mobil : " + warna);
        }
        void matikanMobil()
        {
                System.out.println("Matikan Mobil : " + warna);
        }
        void ubahGigi()
        {
                System.out.println("Ubah Gigi Mobil : " + warna);
        }
}
```

MobilDemo2.java

```java
public class MobilDemo2
{
        public static void main(String[] args)
        {
                Mobil2 avanza = new Mobil2();
                Mobil2 xenia = new Mobil2();
                avanza.warna = "Avanza Silver";

                avanza.hidupkanMobil();
                avanza.ubahGigi();
                avanza.maju();
                avanza.mundur();
                avanza.belok();

                System.out.println("Roda Avanza        : "+avanza.roda);
                System.out.println("Roda Xenia  : "+xenia.roda);
                System.out.println("Mesin Avanza        : "+avanza.mesin);
                System.out.println("Mesin Xenia        : "+xenia.mesin);

                avanza.roda=5;
                xenia.roda=4;
                avanza.mesin=9;
                xenia.mesin=9;

                System.out.println("Roda Avanza        : "+avanza.roda);
                System.out.println("Roda Xenia  : "+xenia.roda);
                System.out.println("Mesin Avanza        : "+avanza.mesin);
                System.out.println("Mesin Xenia        : "+xenia.mesin);
                System.out.println("Mesin Avanza        : "+avanza.mesin);
                System.out.println("Mesin Xenia        : "+xenia.mesin);

                avanza.matikanMobil();
        }
}
```

```
D:\Kuliah\Semester_4\PBO\PRAKTIKUM 2>javac Mobil2.java

D:\Kuliah\Semester_4\PBO\PRAKTIKUM 2>javac MobilDemo2.java

D:\Kuliah\Semester_4\PBO\PRAKTIKUM 2>java MobilDemo2
Hidupkan Mobil : Avanza Silver
Ubah Gigi Mobil : Avanza Silver
Maju.....
Mundur.....
Belok.....
Roda Avanza     : 4
Roda Xenia      : 4
Mesin Avanza    : 1
Mesin Xenia     : 1
Roda Avanza     : 5
Roda Xenia      : 4
Mesin Avanza    : 9
Mesin Xenia     : 9
Mesin Avanza    : 9
Mesin Xenia     : 9
Matikan Mobil : Avanza Silver
```

Code Mobil2.java :

public class Mobil2{

    String warna, gigi;

    int roda=4;

    int body=1;

```java
        static int mesin=1;

        static void maju(){
                System.out.println("Maju.....");
        }
        void mundur(){
                System.out.println("Mundur.....");
        }
        void belok(){
                System.out.println("Belok.....");
        }
        void hidupkanMobil(){
                System.out.println("Hidupkan Mobil : " + warna);
        }
        void matikanMobil(){
                System.out.println("Matikan Mobil : " + warna);
        }
        void ubahGigi(){
                System.out.println("Ubah Gigi Mobil : " + warna);
        }
}
```

Code MobilDemo2.java :

```java
public class MobilDemo2
{
    public static void main(String[] args)
    {
                Mobil2 avanza = new Mobil2();
                Mobil2 xenia = new Mobil2();
                avanza.warna = "Avanza Silver";
```

```java
        avanza.hidupkanMobil();
        avanza.ubahGigi();
        avanza.maju();
        avanza.mundur();
        avanza.belok();

        System.out.println("Roda Avanza      : "+avanza.roda);
        System.out.println("Roda Xenia       : "+xenia.roda);
        System.out.println("Mesin Avanza     : "+avanza.mesin);
        System.out.println("Mesin Xenia      : "+xenia.mesin);

        avanza.roda=5;
        xenia.roda=4;
        avanza.mesin=9;
        xenia.mesin=9;

        System.out.println("Roda Avanza      : "+avanza.roda);
        System.out.println("Roda Xenia       : "+xenia.roda);
        System.out.println("Mesin Avanza     : "+avanza.mesin);
        System.out.println("Mesin Xenia      : "+xenia.mesin);
        System.out.println("Mesin Avanza     : "+avanza.mesin);
        System.out.println("Mesin Xenia      : "+xenia.mesin);

        avanza.matikanMobil();
    }
}
```

Latihan 2

Mahasiswa.java

Nilai.java

Code Mahasiswa.java :

```java
import java.util.Scanner;

public class Mahasiswa{
    String nim, nama;
    float nilaiUts, nilaiTugas, nilaiUas, pNilaiTugas, pNilaiUts, pNilaiUas, nilaiAkhir;
    Scanner myObj = new Scanner(System.in);
    void isiData(String nim,String nama,float nilaiUts,floatnilaiTugas,float nilaiUas){
        this.nim = nim;
        this.nama = nama;
```

```java
                this.nilaiUts = nilaiUts;

                this.nilaiTugas = nilaiTugas;

                this.nilaiUas = nilaiUas;

        }
        void setNim(String nim){

                this.nim = nim; }
        String getNim(){

                return nim; }
        void inputData(){

                System.out.print("NIM            : "); nim=myObj.nextLine();

                System.out.print("Nama                : "); nama=myObj.nextLine();

                System.out.print("Nilai Tugas   : "); nilaiTugas=myObj.nextFloat();

                System.out.print("Nilai UTS     : "); nilaiUts=myObj.nextFloat();

                System.out.print("Nilai UAS     : "); nilaiUas=myObj.nextFloat();

        }
        void hitungNilai(){

                pNilaiTugas = nilaiTugas * 0.20f;

                pNilaiUts = nilaiUts * 0.35f;

                pNilaiUas = nilaiUas * 0.45f;

                nilaiAkhir = pNilaiUts + pNilaiTugas + pNilaiUas;

        }
        void cetakNilai(){

                System.out.println("NIM                : " + nim);

                System.out.println("Nama                : " + nama);

                System.out.println("Nilai Tugas : " + nilaiTugas +"30% : " +pNilaiTugas);

                System.out.println("Nilai UTS    : " + nilaiUts +" 35% : " +pNilaiUts);

                System.out.println("Nilai UAS    : " + nilaiUas +"35% : " +pNilaiUas);

                System.out.println("Nilai Akhir  : " + nilaiAkhir);

        }

}
```

Code Nilai.java :

```java
public class Nilai {
    public static void main(String[] args) {
        Mahasiswa nilaiku = new Mahasiswa();
        nilaiku.nim = "A11.2022.00001";
        nilaiku.nama = "Najwa";
        nilaiku.nilaiTugas = 87;
        nilaiku.nilaiUts = 90;
        nilaiku.nilaiUas = 98;
        nilaiku.hitungNilai();
        nilaiku.cetakNilai();
        Mahasiswa nilaimu = new Mahasiswa();
        nilaimu.nim = "A11.2022.00002";
        nilaimu.nama = "Ghiyatsi";
        nilaimu.nilaiTugas = 80;
        nilaimu.nilaiUts = 88;
        nilaimu.nilaiUas = 95;
        nilaimu.hitungNilai();
        nilaimu.cetakNilai();
        Mahasiswa nilainya = new Mahasiswa();
        nilainya.isiData("A11.2022.00003", "Anisa", 90,79,80);
        nilainya.hitungNilai();
        nilainya.setNim("A11.2022.00007");
        nilainya.cetakNilai();
        Mahasiswa nilaiDia = new Mahasiswa();
        nilaiDia.inputData();
        nilaiDia.hitungNilai();
        nilaiDia.cetakNilai();
    }
}
```