Mata Kuliah : PBO – TI – S1

Pertemuan : 3

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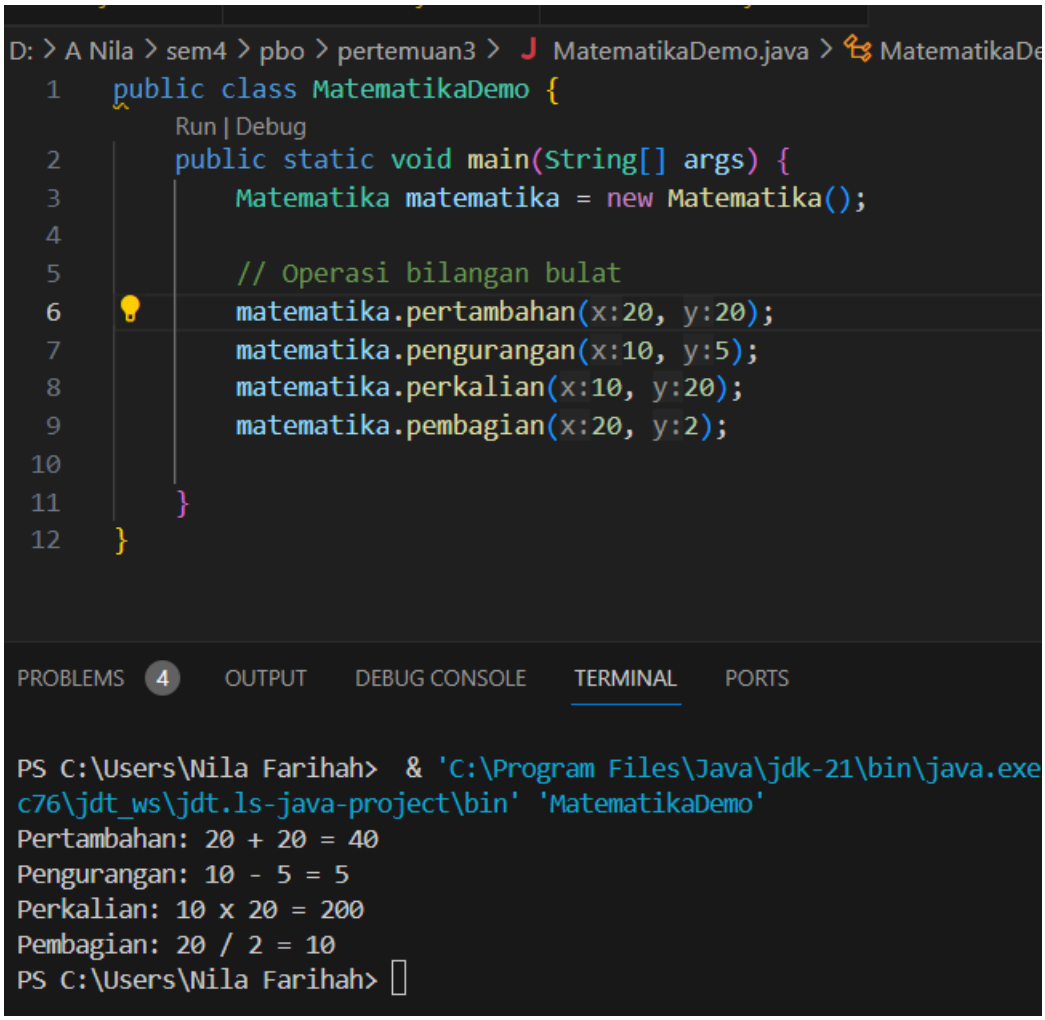
Hasil Program Matematika:



Kode Program :

File “Matematika.java”

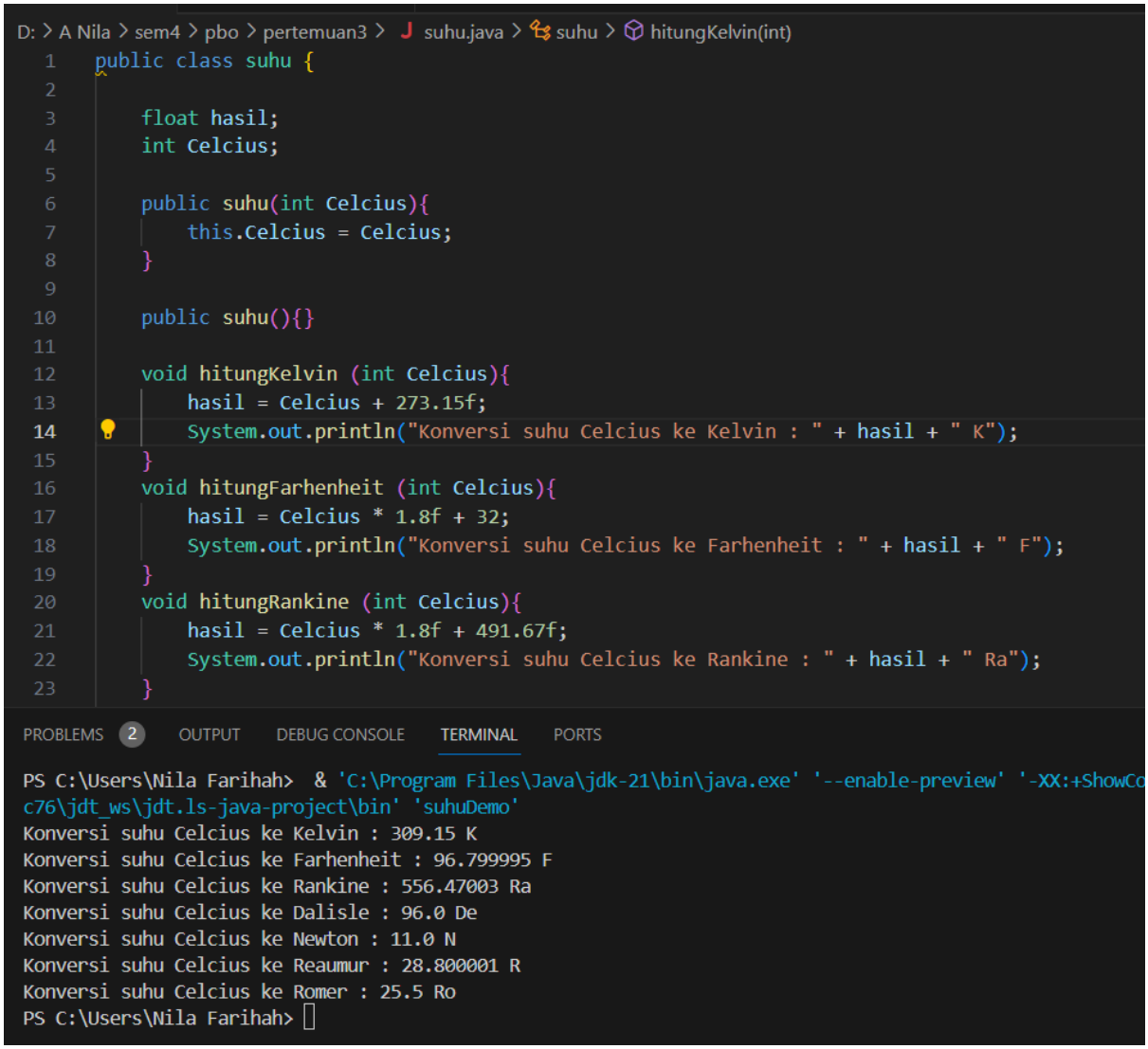
```
public class Matematika {
    public void pertambahan(int x, int y) {
       System.out.println("Pertambahan: " + x + " + " + y + " =
       " + (x + y));
    }

    public void pengurangan(int x, int y) {
```

```
        System.out.println("Pengurangan: " + x + " - " + y + " =
        " + (x - y));
    }

    public void perkalian(int x, int y) {
        System.out.println("Perkalian: " + x + " x " + y + " = "
        + (x * y));
    }

    public void pembagian(int x, int y) {
        if (y != 0) {
            System.out.println("Pembagian: " + x + " / " + y + "
            = " + (x / y));
        } else {
            System.out.println("Error: Pembagian dengan nol
            tidak diperbolehkan");
        }
    }

}
```

File “MatematikaDemo.java”

```
public class MatematikaDemo {
    public static void main(String[] args) {
        Matematika matematika = new Matematika();

        // Operasi bilangan bulat
        matematika.pertambahan(20, 20);
        matematika.pengurangan(10, 5);
        matematika.perkalian(10, 20);
        matematika.pembagian(20, 2);

    }
}
```

Hasil Program suhu:



Kode Program :

File “suhu.java”

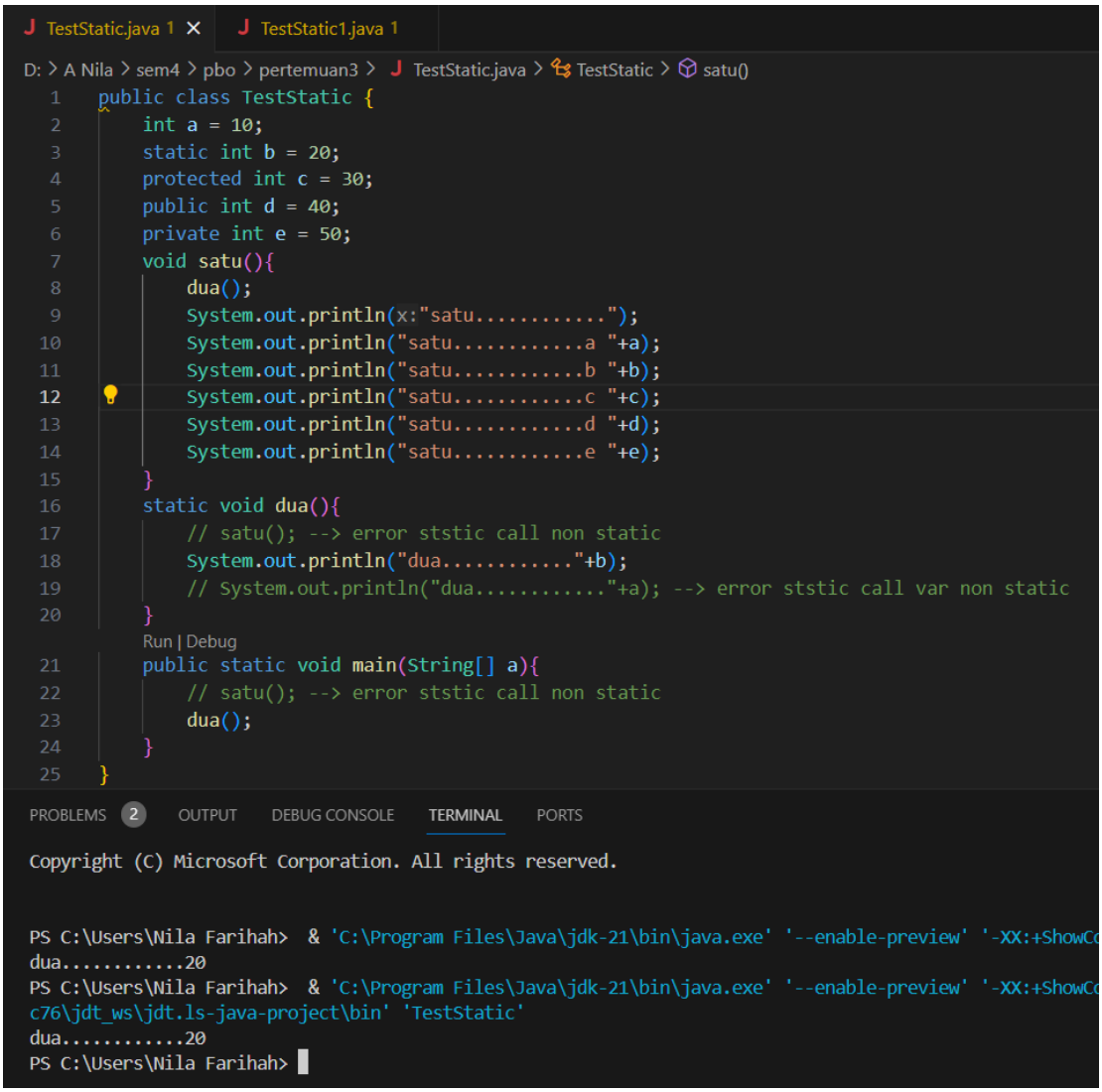
```
public class suhu {

    float hasil;
    int Celcius;

    public suhu(int Celcius){
        this.Celcius = Celcius;
    }

    public suhu(){}

    void hitungKelvin (int Celcius){
        hasil = Celcius + 273.15f;
```

```
        System.out.println("Konversi suhu Celcius ke Kelvin : "
+ hasil + " K");
    }
    void hitungFarhenheit (int Celcius){
        hasil = Celcius * 1.8f + 32;
        System.out.println("Konversi suhu Celcius ke Farhenheit
: " + hasil + " F");
    }
    void hitungRankine (int Celcius){
        hasil = Celcius * 1.8f + 491.67f;
        System.out.println("Konversi suhu Celcius ke Rankine : "
+ hasil + " Ra");
    }
    void hitungDalisle (int Celcius){
        hasil = (100 - Celcius) * 1.5f;
        System.out.println("Konversi suhu Celcius ke Dalisle : "
+ hasil + " De");
    }
    void hitungNewton (int Celcius){
        hasil = Celcius * 33/100;
        System.out.println("Konversi suhu Celcius ke Newton : "
+ hasil + " N");
    }
    void hitungReaumur (int Celcius){
        hasil = Celcius * 0.8f;
        System.out.println("Konversi suhu Celcius ke Reaumur : "
+ hasil + " R");
    }
    void hitungRomer(int Celcius){
        hasil = Celcius * 21/40 + 7.5f;
        System.out.println("Konversi suhu Celcius ke Romer : " +
hasil + " Ro");
    }
}
```

File “suhuDemo.java”

```
public class suhuDemo {
    public static void main(String[] args) {
        suhu Suhu = new suhu(36);
        Suhu.hitungKelvin(Suhu.Celcius);
        Suhu.hitungFarhenheit(Suhu.Celcius);
        Suhu.hitungRankine(Suhu.Celcius);
        Suhu.hitungDalisle(Suhu.Celcius);
        Suhu.hitungNewton(Suhu.Celcius);
        Suhu.hitungReaumur(Suhu.Celcius);
        Suhu.hitungRomer(Suhu.Celcius);
    }
}
```

Hasil Program TestStatic:



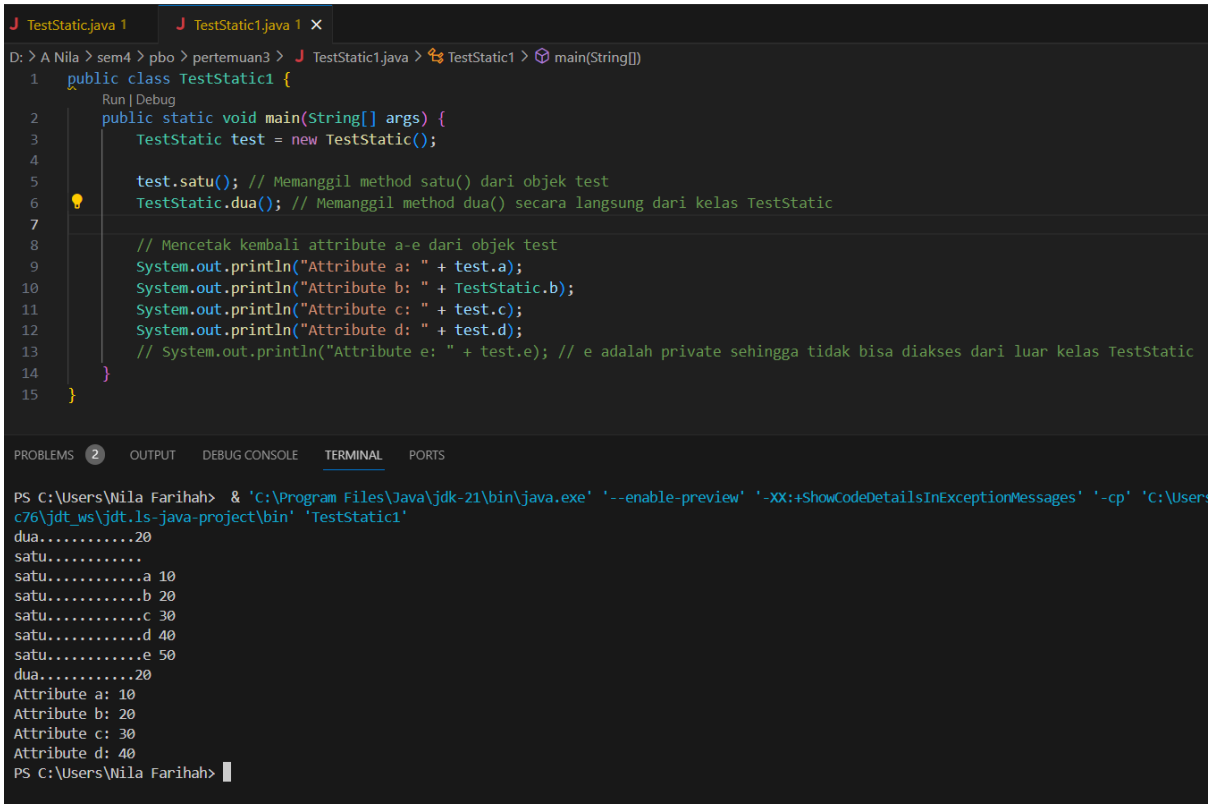
Kode Program :

File “TestStatic.java”

```
public class TestStatic {
   int a = 10;
   static int b = 20;
   protected int c = 30;
   public int d = 40;
   private int e = 50;
   void satu(){
       dua();
       System.out.println("satu.....");
       System.out.println("satu.....a "+a);
       System.out.println("satu.....b "+b);
       System.out.println("satu.....c "+c);
       System.out.println("satu.....d "+d);
       System.out.println("satu.....e "+e);
```

```
    }
    static void dua(){
        // satu(); --> error ststic call non static
        System.out.println("dua............"+b);
        // System.out.println("dua............"+a); --> error
ststic call var non static
    }
    public static void main(String[] a){
        // satu(); --> error ststic call non static
        dua();
    }
}
```

Hasil Program TestStatic1:




```
 public class TestStatic1 {
    public static void main(String[] args) {
        TestStatic test = new TestStatic();

        test.satu(); // Memanggil method satu() dari objek test
        TestStatic.dua(); // Memanggil method dua() secara
langsung dari kelas TestStatic
```

```
        // Mencetak kembali attribute a-e dari objek test
        System.out.println("Attribute a: " + test.a);
        System.out.println("Attribute b: " + TestStatic.b);
        System.out.println("Attribute c: " + test.c);
        System.out.println("Attribute d: " + test.d);
        // System.out.println("Attribute e: " + test.e); // e
adalah private sehingga tidak bisa diakses dari luar kelas
TestStatic
    }
}
```