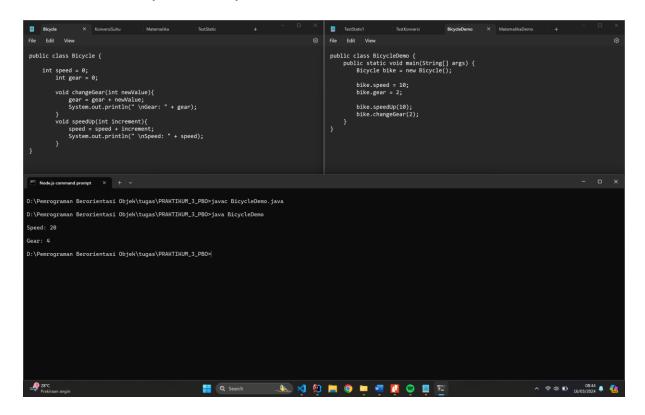
Nama : Restu Lestari Mulianingrum

NIM : A11.2022.14668

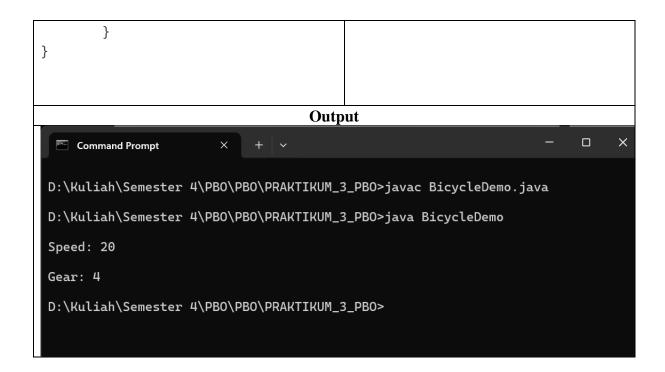
Kelompok : A11.4415

PRAKTIKUM 3

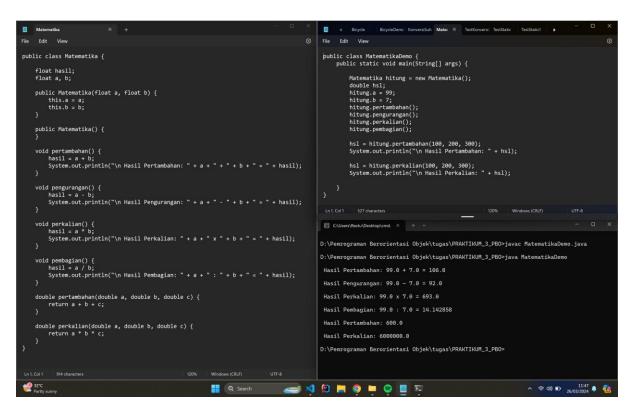
Membuat class Bicycle dan BicycleDemo



```
Code BicvcleDemo.java
           Code Bicycle.java
public class Bicycle {
                                         public class BicycleDemo {
                                             public static void
    int speed = 0;
                                         main(String[] args) {
                                                  Bicycle bike = new
        int gear = 0;
                                         Bicycle();
        void changeGear(int newValue){
            gear = gear + newValue;
                                                  bike.speed = 10;
            System.out.println("
                                                  bike.gear = 2;
\nGear: " + gear);
                                                  bike.speedUp(10);
        void speedUp(int increment){
                                                  bike.changeGear(2);
            speed = speed + increment;
                                             }
            System.out.println("
                                         }
\nSpeed: " + speed);
```



Latihan 1 (Program Operasi Matematika)



```
Code Matematika.java

public class Matematika {

   float hasil;
   float a, b;
```

```
public Matematika(float a, float b) {
        this.a = a;
        this.b = b;
    }
   public Matematika() {
   void pertambahan() {
        hasil = a + b;
        System.out.println("\n Hasil Pertambahan: " + a + " + " + b + " = "
+ hasil);
   }
   void pengurangan() {
        hasil = a - b;
        System.out.println("\n Hasil Pengurangan: " + a + " - " + b + " = "
+ hasil);
   }
   void perkalian() {
        hasil = a * b;
        System.out.println("\n Hasil Perkalian: " + a + " x " + b + " = " +
hasil);
    }
   void pembagian() {
        hasil = a / b;
        System.out.println("\n Hasil Pembagian: " + a + " : " + b + " = " +
hasil);
   }
    double pertambahan(double a, double b, double c) {
        return a + b + c;
    }
    double perkalian(double a, double b, double c) {
        return a * b * c;
    }
}
```

Code MatematikaDemo.java

```
public class MatematikaDemo {
   public static void main(String[] args) {
```

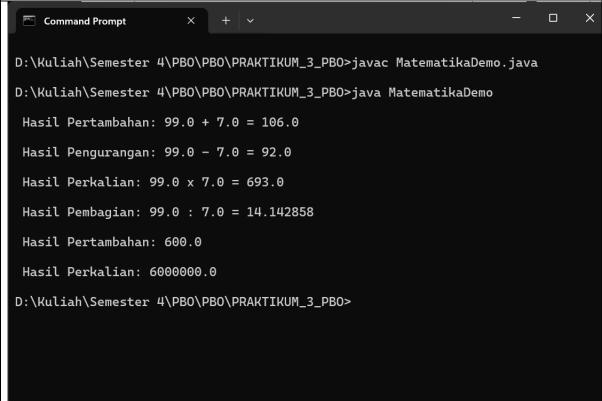
```
Matematika hitung = new Matematika();
double hs1;
hitung.a = 99;
hitung.b = 7;
hitung.pertambahan();
hitung.pengurangan();
hitung.perkalian();
hitung.pembagian();

hsl = hitung.pertambahan(100, 200, 300);
System.out.println("\n Hasil Pertambahan: " + hsl);

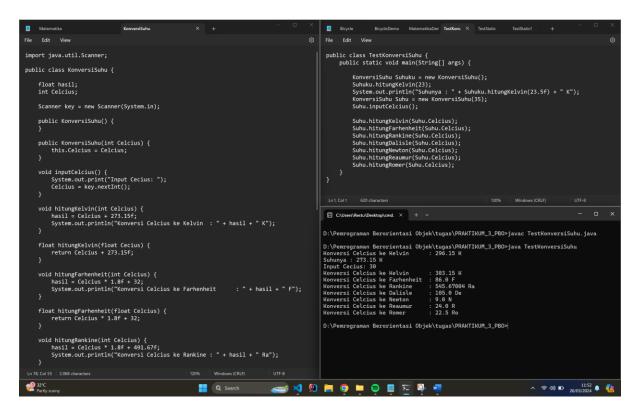
hsl = hitung.perkalian(100, 200, 300);
System.out.println("\n Hasil Perkalian: " + hsl);

}

Output
Output
```



Latihan 2 (Program konversi suhu dari Celcius)



Code KonversiSuhu.java import java.util.Scanner; public class KonversiSuhu { float hasil; int Celcius; Scanner key = new Scanner(System.in); public KonversiSuhu() { public KonversiSuhu(int Celcius) { this.Celcius = Celcius; } void inputCelcius() { System.out.print("Input Cecius: "); Celcius = key.nextInt(); } void hitungKelvin(int Celcius) { hasil = Celcius + 273.15f; System.out.println("Konversi Celcius ke Kelvin : " + hasil + " K");

```
}
    float hitungKelvin(float Cecius) {
        return Celcius + 273.15f;
    }
   void hitungFarhenheit(int Celcius) {
        hasil = Celcius * 1.8f + 32;
        System.out.println("Konversi Celcius ke Farhenheit : " + hasil + "
F");
   }
    float hitungFarhenheit(float Celcius) {
        return Celcius * 1.8f + 32;
    }
    void hitungRankine(int Celcius) {
        hasil = Celcius * 1.8f + 491.67f;
        System.out.println("Konversi Celcius ke Rankine : " + hasil + "
Ra");
   }
   float hitungRankine(float Celcius) {
        return Celcius * 1.8f + 491.67f;
   }
   void hitungDalisle(int Celcius) {
        hasil = (100 - Celcius) * 1.5f;
        System.out.println("Konversi Celcius ke Dalisle : " + hasil + "
De");
   float hitungDalisle(float Celcius) {
        return (100 - Celcius) * 1.5f;
    }
   void hitungNewton(int Celcius) {
        hasil = Celcius * 33 / 100;
        System.out.println("Konversi Celcius ke Newton : " + hasil + " N");
    }
    float hitungNewton(float Celcius) {
        return Celcius * 33 / 100;
    }
    void hitungReaumur(int Celcius) {
        hasil = Celcius * 0.8f;
        System.out.println("Konversi Celcius ke Reaumur : " + hasil + " R");
```

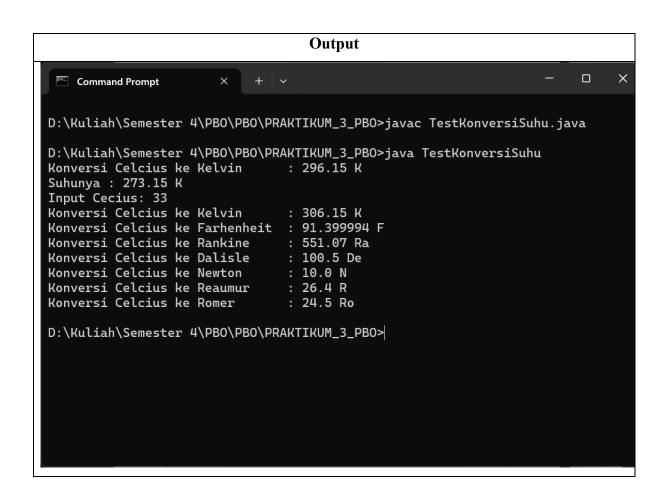
```
float hitungReaumur(float Celcius) {
    return Celcius * 0.8f;
}

void hitungRomer(int Celcius) {
    hasil = Celcius * 21 / 40 + 7.5f;
    System.out.println("Konversi Celcius ke Romer : " + hasil + "
Ro");
}

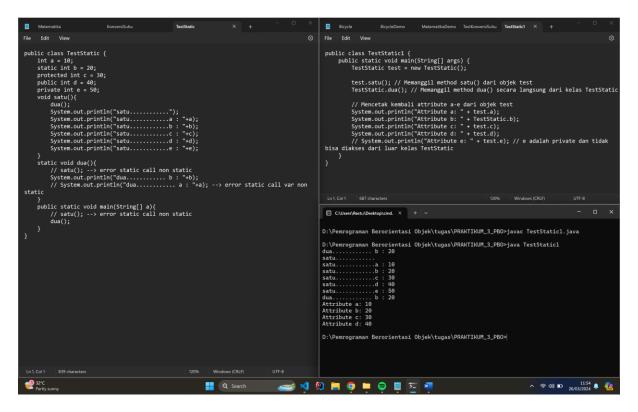
float hitungRomer(float Celcius) {
    return Celcius * 21 / 40 + 7.5f;
}
}
```

Code TestKonversiSuhu.java

```
public class TestKonversiSuhu {
    public static void main(String[] args) {
        KonversiSuhu Suhuku = new KonversiSuhu();
        Suhuku.hitungKelvin(23);
        System.out.println("Suhunya : " + Suhuku.hitungKelvin(23.5f) + "
K");
        KonversiSuhu Suhu = new KonversiSuhu(35);
        Suhu.inputCelcius();
        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);
    }
}
```



Latihan 3



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

```
}
}
                           Code TestStatic1.java
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
dan tidak bisa diakses dari luar kelas TestStatic
}
                                  Output
  Command Prompt
 D:\Kuliah\Semester 4\PBO\PBO\PRAKTIKUM_3_PBO>javac TestStatic1.java
 D:\Kuliah\Semester 4\PBO\PBO\PRAKTIKUM_3_PBO>java TestStatic1
 dua..... b : 20
 satu.......
 satu....a : 10
 satu....b : 20
 satu....c : 30
 satu.....d : 40
 satu....e : 50
 dua..... b : 20
 Attribute a: 10
 Attribute b: 20
 Attribute c: 30
 Attribute d: 40
 D:\Kuliah\Semester 4\PBO\PBO\PRAKTIKUM_3_PBO>
```