Latihan 02
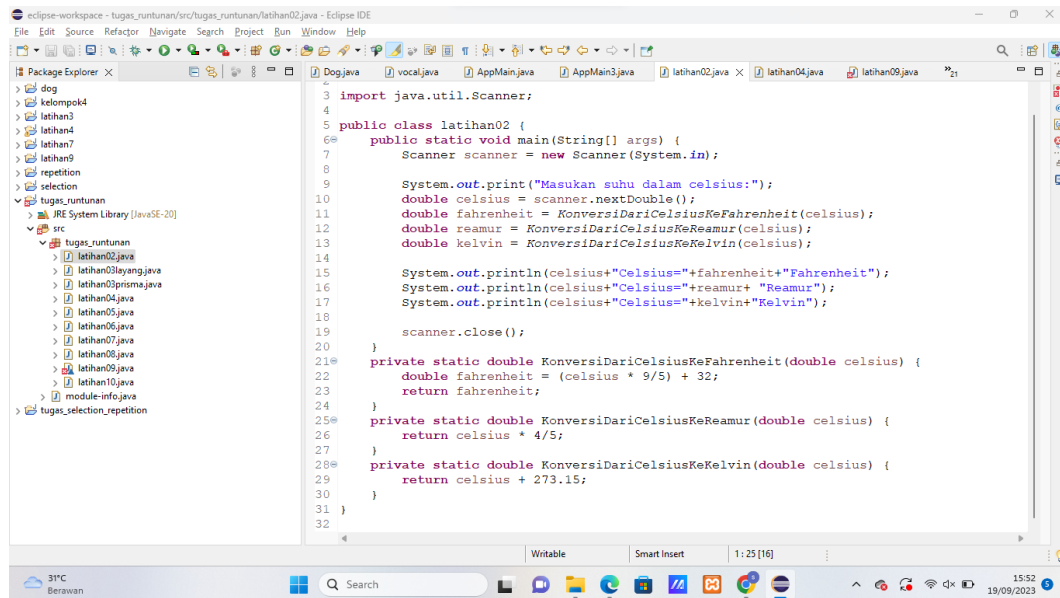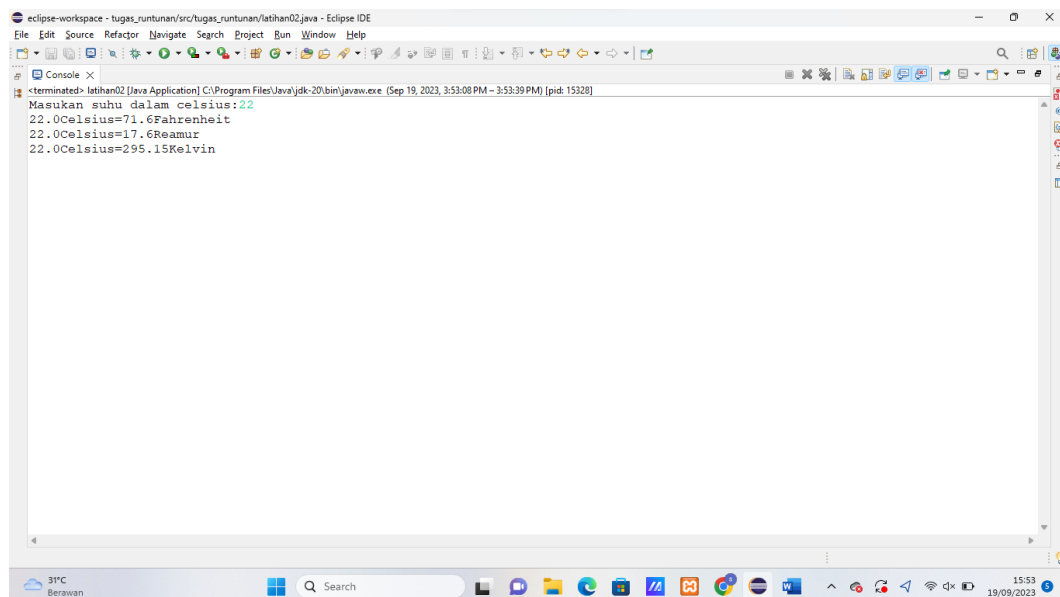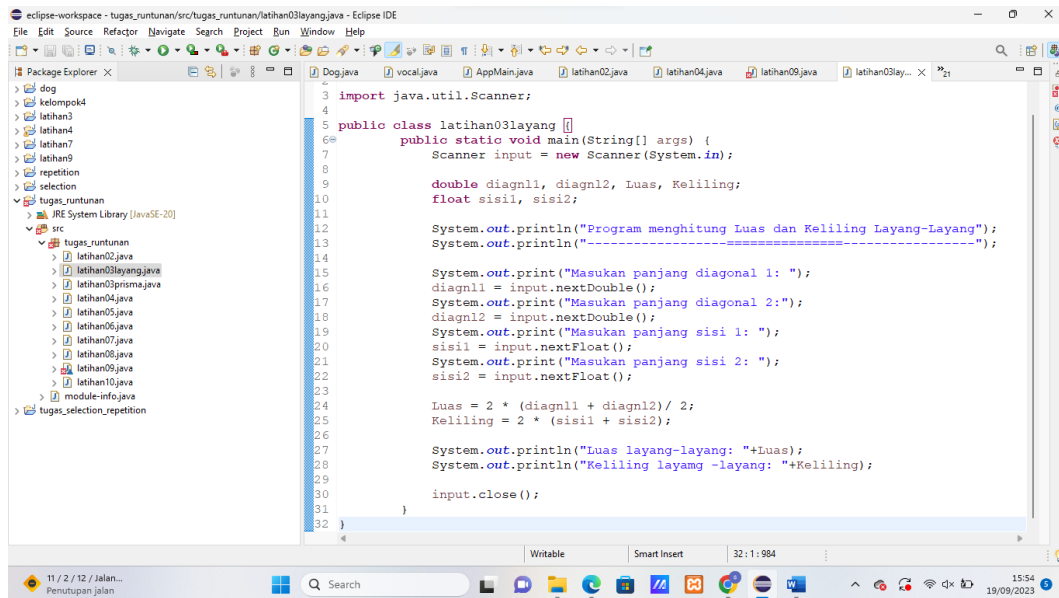
```java
import java.util.Scanner;

public class latihan02 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Masukan suhu dalam celsius:");
        double celsius = scanner.nextDouble();
        double fahrenheit = KonversiDariCelsiusKeFahrenheit(celsius);
        double reamur = KonversiDariCelsiusKeReamur(celsius);
        double kelvin = KonversiDariCelsiusKeKelvin(celsius);

        System.out.println(celsius+"Celsius="+fahrenheit+"Fahrenheit");
        System.out.println(celsius+"Celsius="+reamur+ "Reamur");
        System.out.println(celsius+"Celsius="+kelvin+"Kelvin");

        scanner.close();
    }
    private static double KonversiDariCelsiusKeFahrenheit(double celsius) {
        double fahrenheit = (celsius * 9/5) + 32;
        return fahrenheit;
    }
    private static double KonversiDariCelsiusKeReamur(double celsius) {
        return celsius * 4/5;
    }
    private static double KonversiDariCelsiusKeKelvin(double celsius) {
        return celsius + 273.15;
    }
}
```
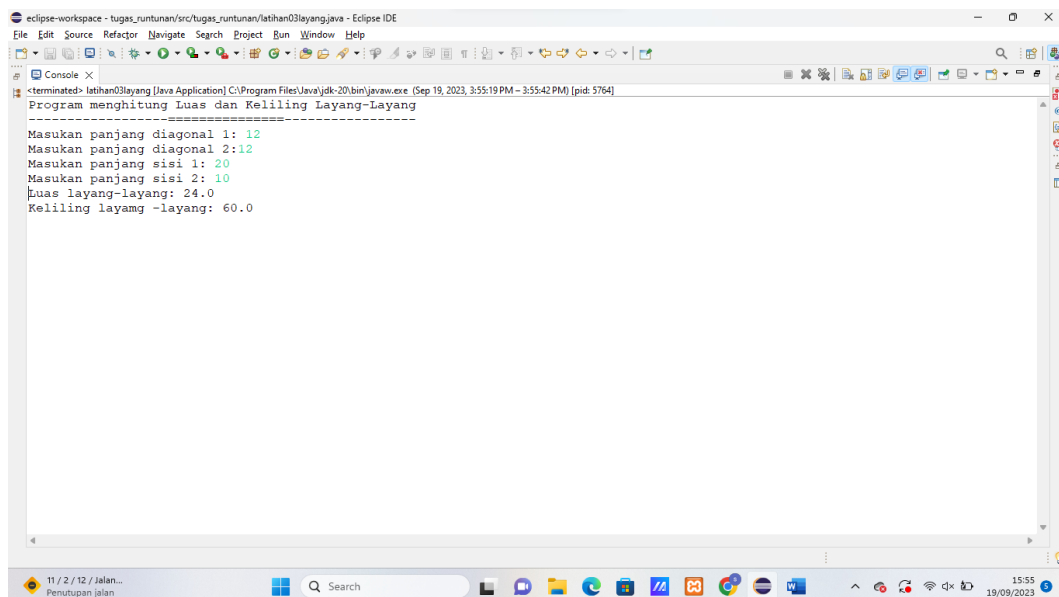
```
Masukan suhu dalam celsius:22
22.0Celsius=71.6Fahrenheit
22.0Celsius=17.6Reamur
22.0Celsius=295.15Kelvin
```
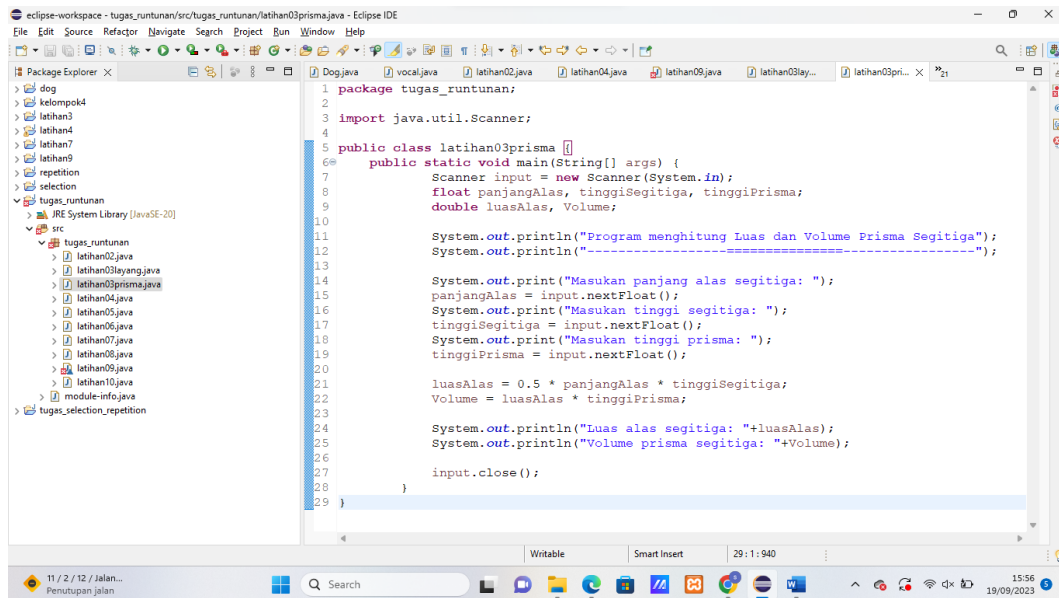
Latihan 03 layang-layang

```java
import java.util.Scanner;

public class latihan03layang {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        double diagnl1, diagnl2, Luas, Keliling;
        float sisi1, sisi2;

        System.out.println("Program menghitung Luas dan Keliling Layang-Layang");
        System.out.println("------------------==================----------------");

        System.out.print("Masukan panjang diagonal 1: ");
        diagnl1 = input.nextDouble();
        System.out.print("Masukan panjang diagonal 2:");
        diagnl2 = input.nextDouble();
        System.out.print("Masukan panjang sisi 1: ");
        sisi1 = input.nextFloat();
        System.out.print("Masukan panjang sisi 2: ");
        sisi2 = input.nextFloat();

        Luas = 2 * (diagnl1 + diagnl2)/ 2;
        Keliling = 2 * (sisi1 + sisi2);

        System.out.println("Luas layang-layang: "+Luas);
        System.out.println("Keliling layamg -layang: "+Keliling);

        input.close();
    }
}
```
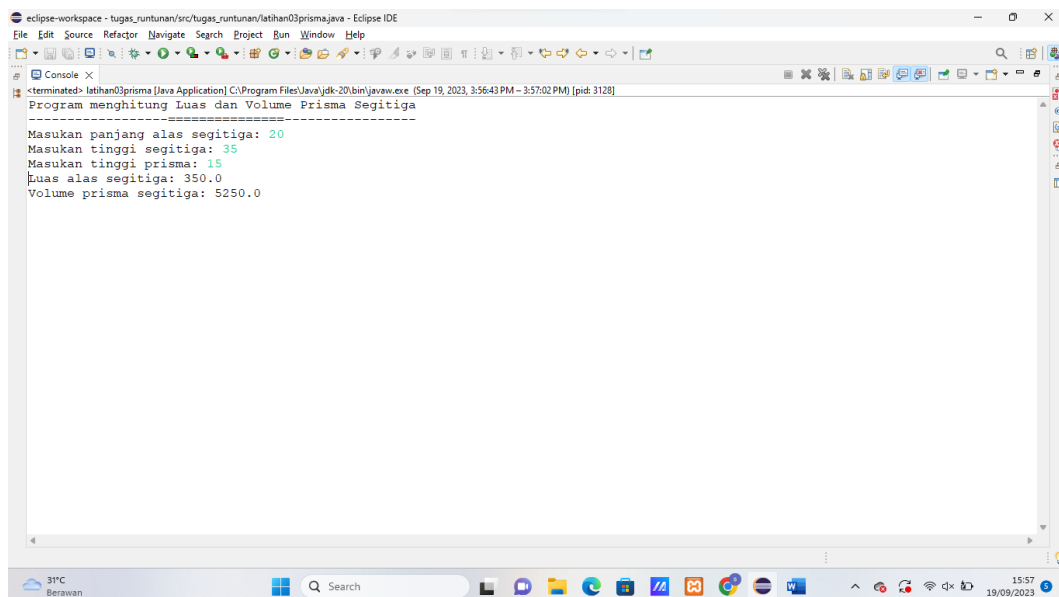
Console output:

```
Program menghitung Luas dan Keliling Layang-Layang
------------------==================----------------
Masukan panjang diagonal 1: 12
Masukan panjang diagonal 2:12
Masukan panjang sisi 1: 20
Masukan panjang sisi 2: 10
Luas layang-layang: 24.0
Keliling layamg -layang: 60.0
```

Latihan 03 prisma segitiga


```java
package tugas_runtunan;

import java.util.Scanner;

public class latihan03prisma {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        float panjangAlas, tinggiSegitiga, tinggiPrisma;
        double luasAlas, Volume;

        System.out.println("Program menghitung Luas dan Volume Prisma Segitiga");
        System.out.println("------------------===============------------------");

        System.out.print("Masukan panjang alas segitiga: ");
        panjangAlas = input.nextFloat();
        System.out.print("Masukan tinggi segitiga: ");
        tinggiSegitiga = input.nextFloat();
        System.out.print("Masukan tinggi prisma: ");
        tinggiPrisma = input.nextFloat();

        luasAlas = 0.5 * panjangAlas * tinggiSegitiga;
        Volume = luasAlas * tinggiPrisma;

        System.out.println("Luas alas segitiga: "+luasAlas);
        System.out.println("Volume prisma segitiga: "+Volume);

        input.close();
    }
}
```
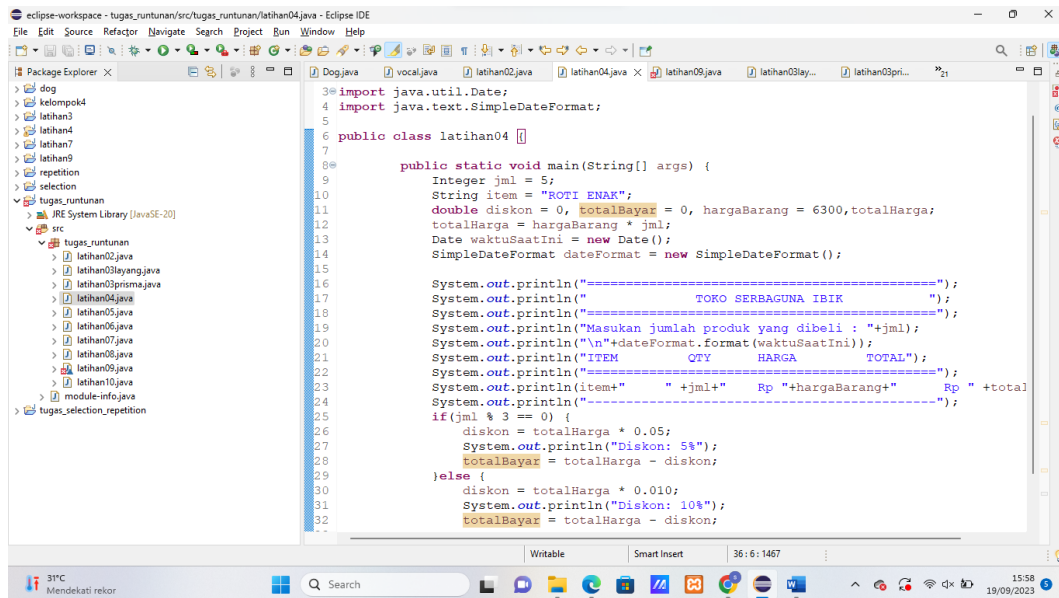


```
Program menghitung Luas dan Volume Prisma Segitiga
------------------===============------------------
Masukan panjang alas segitiga: 20
Masukan tinggi segitiga: 35
Masukan tinggi prisma: 15
Luas alas segitiga: 350.0
Volume prisma segitiga: 5250.0
```
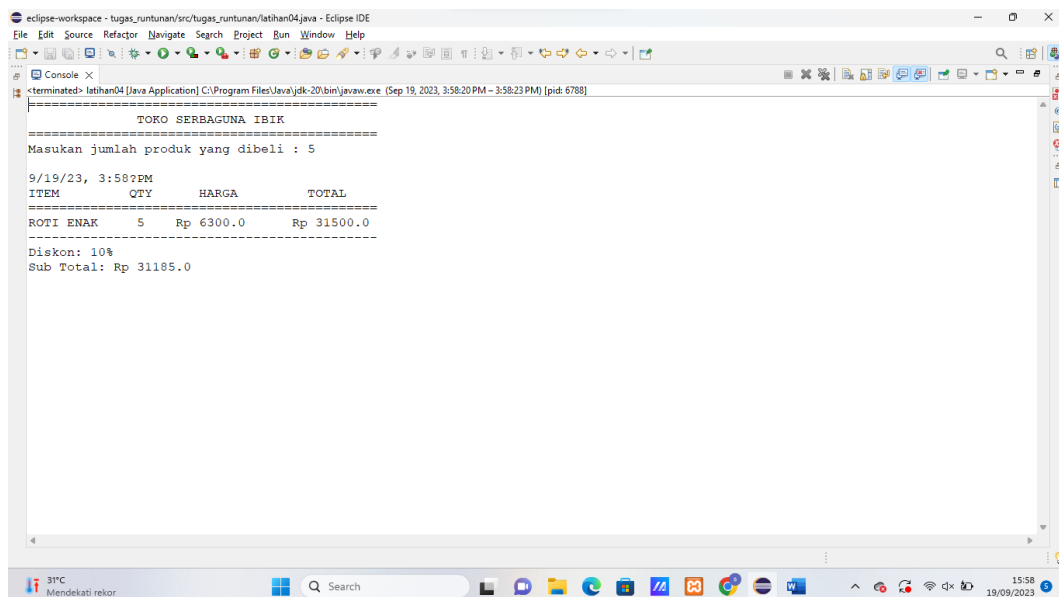
Latihan 04

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- dog
- kelompok4
- latihan3
- latihan4
- latihan7
- latihan9
- repetition
- selection
- tugas_runtunan
  - JRE System Library [JavaSE-20]
  - src
    - tugas_runtunan
      - latihan02.java
      - latihan03layang.java
      - latihan03prisma.java
      - latihan04.java
      - latihan05.java
      - latihan06.java
      - latihan07.java
      - latihan08.java
      - latihan09.java
      - latihan10.java
      - module-info.java
- tugas_selection_repetition

Dog.java   vocal.java   latihan02.java   latihan04.java   latihan09.java   latihan03lay...   latihan03pri...
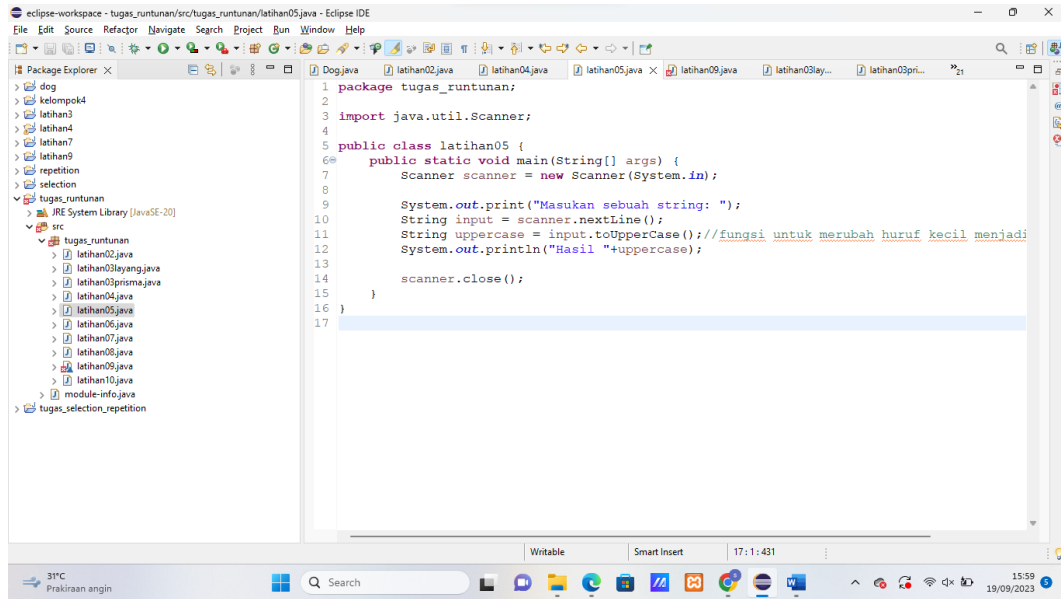
```java
3  import java.util.Date;
4  import java.text.SimpleDateFormat;
5
6  public class latihan04 {
7
8      public static void main(String[] args) {
9          Integer jml = 5;
10         String item = "ROTI ENAK";
11         double diskon = 0, totalBayar = 0, hargaBarang = 6300,totalHarga;
12         totalHarga = hargaBarang * jml;
13         Date waktuSaatIni = new Date();
14         SimpleDateFormat dateFormat = new SimpleDateFormat();
15
16         System.out.println("===========================================");
17         System.out.println("           TOKO SERBAGUNA IBIK            ");
18         System.out.println("===========================================");
19         System.out.println("Masukan jumlah produk yang dibeli : "+jml);
20         System.out.println("\n"+dateFormat.format(waktuSaatIni));
21         System.out.println("ITEM         QTY        HARGA        TOTAL");
22         System.out.println("===========================================");
23         System.out.println(item+"     " +jml+"    Rp "+hargaBarang+"     Rp " +total
24         System.out.println("-------------------------------------------");
25         if(jml % 3 == 0) {
26             diskon = totalHarga * 0.05;
27             System.out.println("Diskon: 5%");
28             totalBayar = totalHarga - diskon;
29         }else {
30             diskon = totalHarga * 0.010;
31             System.out.println("Diskon: 10%");
32             totalBayar = totalHarga - diskon;
```
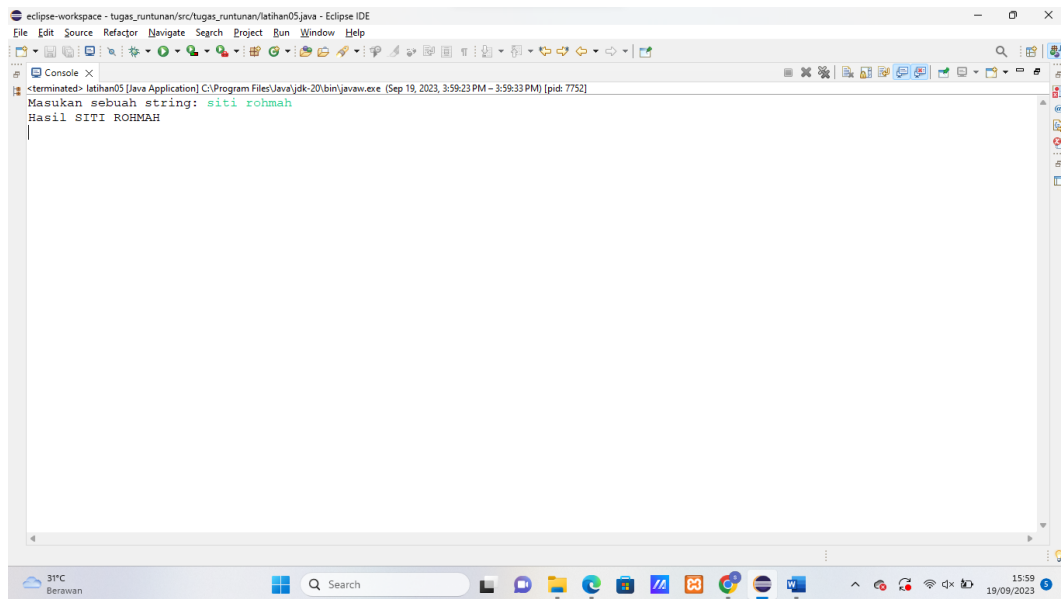
Writable   Smart Insert   36 : 6 : 1467

File Edit Source Refactor Navigate Search Project Run Window Help

Console

```
<terminated> latihan04 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 3:58:20 PM – 3:58:23 PM) [pid: 6788]
===========================================
           TOKO SERBAGUNA IBIK
===========================================
Masukan jumlah produk yang dibeli : 5

9/19/23, 3:58?PM
ITEM         QTY        HARGA        TOTAL
===========================================
ROTI ENAK     5    Rp 6300.0     Rp 31500.0
-------------------------------------------
Diskon: 10%
Sub Total: Rp 31185.0
```

Latihan 05
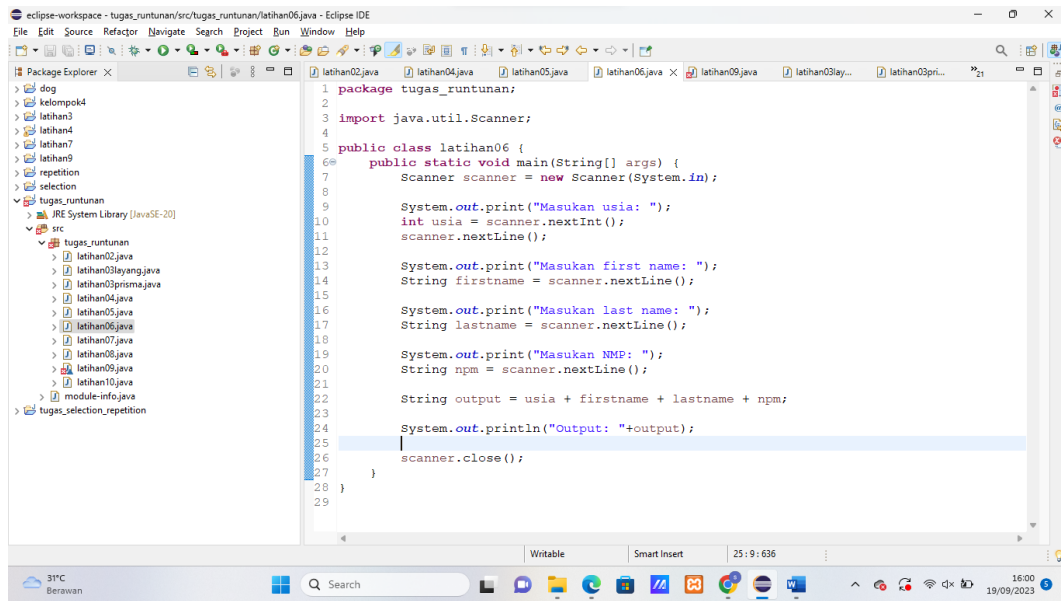


```java
package tugas_runtunan;

import java.util.Scanner;

public class latihan05 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Masukan sebuah string: ");
        String input = scanner.nextLine();
        String uppercase = input.toUpperCase();//fungsi untuk merubah huruf kecil menjadi
        System.out.println("Hasil "+uppercase);

        scanner.close();
    }
}
```
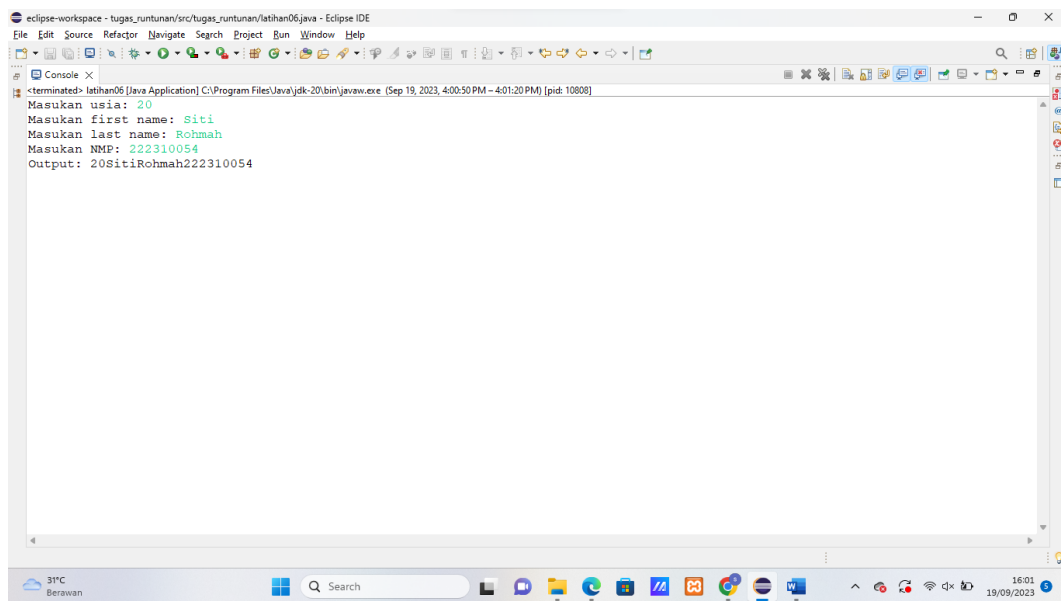


```
Masukan sebuah string: siti rohmah
Hasil SITI ROHMAH
```

Latihan 06


```java
package tugas_runtunan;

import java.util.Scanner;

public class latihan06 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Masukan usia: ");
        int usia = scanner.nextInt();
        scanner.nextLine();

        System.out.print("Masukan first name: ");
        String firstname = scanner.nextLine();

        System.out.print("Masukan last name: ");
        String lastname = scanner.nextLine();

        System.out.print("Masukan NMP: ");
        String npm = scanner.nextLine();

        String output = usia + firstname + lastname + npm;

        System.out.println("Output: "+output);

        scanner.close();
    }
}
```



```
Masukan usia: 20
Masukan first name: Siti
Masukan last name: Rohmah
Masukan NMP: 222310054
Output: 20SitiRohmah222310054
```

Latihan 07


```java
package latihan7;

public class vocal {
    String namaLengkap;
    String namaDiubah;
}
```
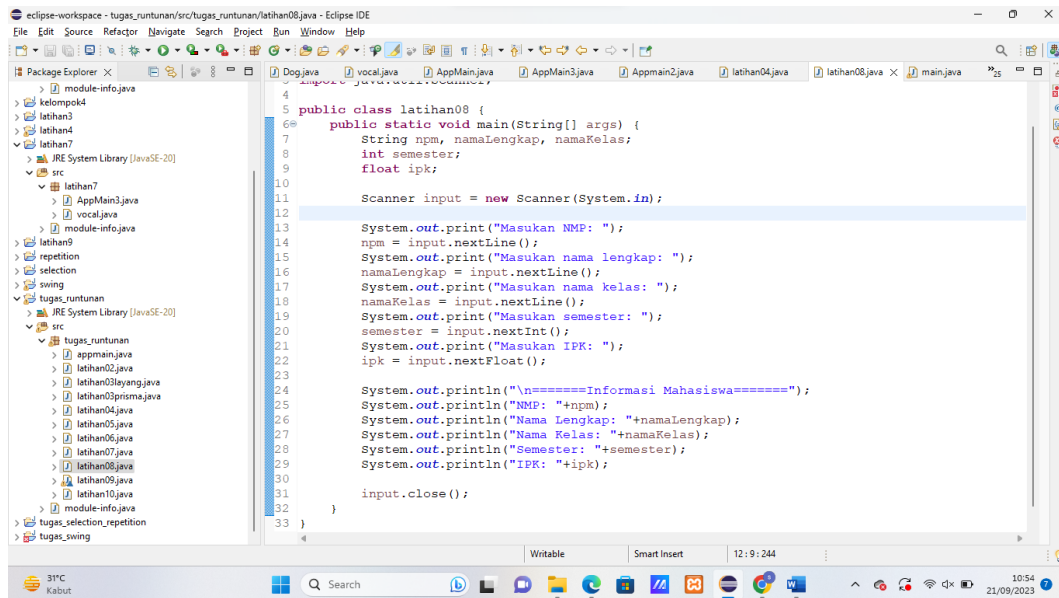
Console output:
```
Nama Lengkap: Siti Rohmah
Nama Lengkap Setelah Diubah: SXtX RXhmXh
```



```java
package latihan7;

public class AppMain3 {
    static vocal myname = new vocal();
    public static void main(String[] args) {
        String namaLengkap = "Siti Rohmah";
        System.out.println("Nama Lengkap: "+ namaLengkap);

        String namaDiubah = namaLengkap.replaceAll("[aiueoAIUEO]","X");
        System.out.println("Nama Lengkap Setelah Diubah: "+ namaDiubah);
    }
}
```
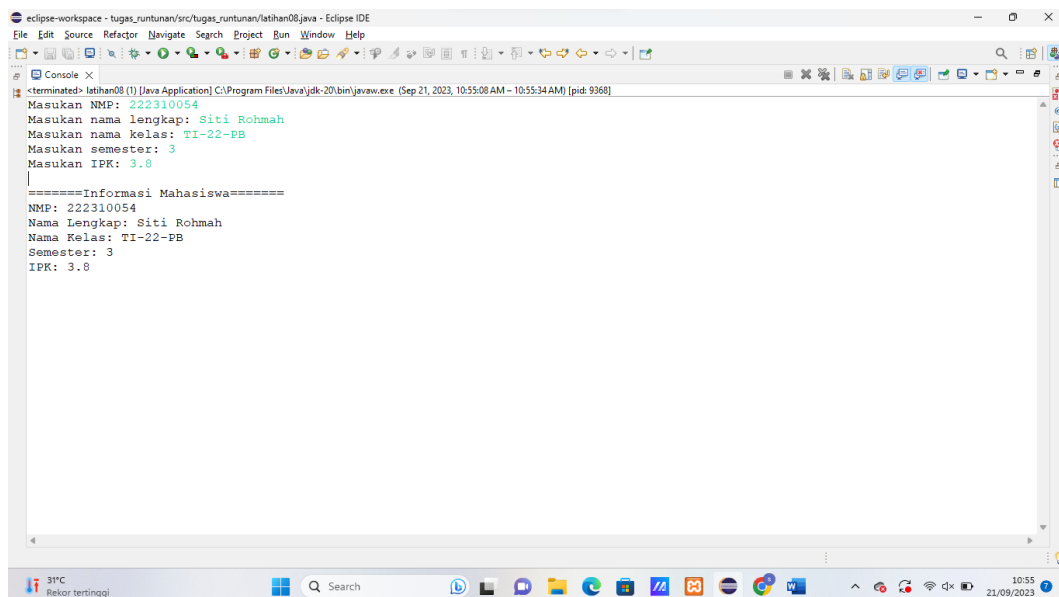
Console output:
```
Nama Lengkap: Siti Rohmah
Nama Lengkap Setelah Diubah: SXtX RXhmXh
```

Latihan 08
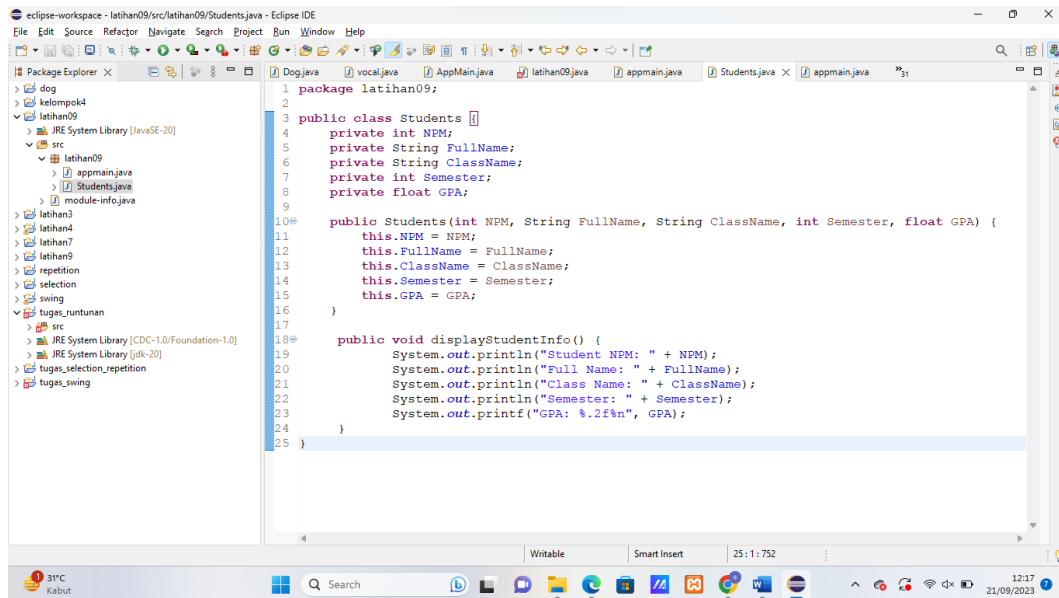


```java
public class latihan08 {
    public static void main(String[] args) {
        String npm, namaLengkap, namaKelas;
        int semester;
        float ipk;

        Scanner input = new Scanner(System.in);

        System.out.print("Masukan NMP: ");
        npm = input.nextLine();
        System.out.print("Masukan nama lengkap: ");
        namaLengkap = input.nextLine();
        System.out.print("Masukan nama kelas: ");
        namaKelas = input.nextLine();
        System.out.print("Masukan semester: ");
        semester = input.nextInt();
        System.out.print("Masukan IPK: ");
        ipk = input.nextFloat();

        System.out.println("\n=======Informasi Mahasiswa=======");
        System.out.println("NMP: "+npm);
        System.out.println("Nama Lengkap: "+namaLengkap);
        System.out.println("Nama Kelas: "+namaKelas);
        System.out.println("Semester: "+semester);
        System.out.println("IPK: "+ipk);

        input.close();
    }
}
```
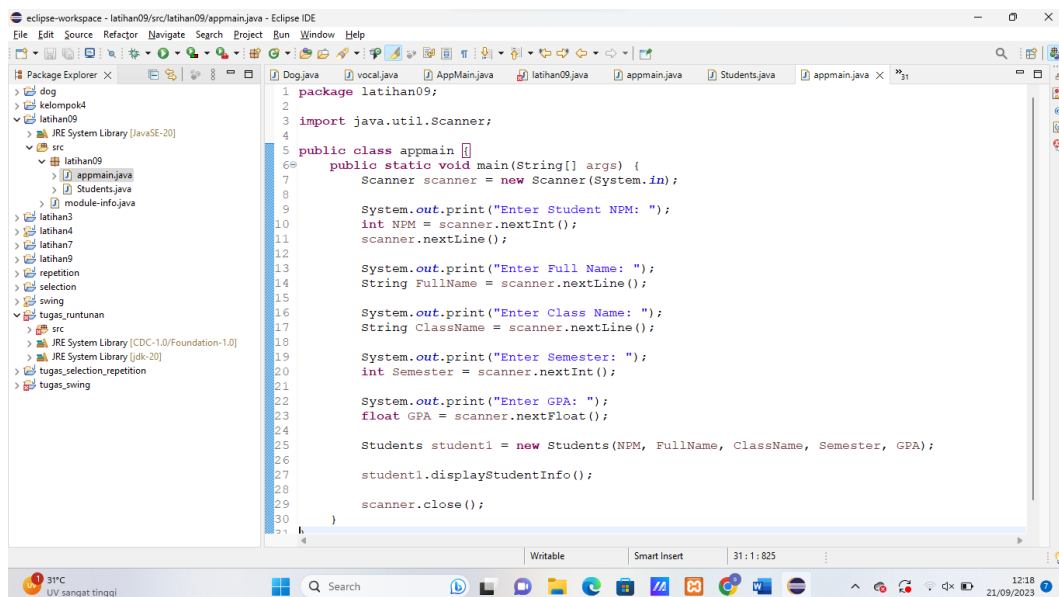


```
Masukan NMP: 222310054
Masukan nama lengkap: Siti Rohmah
Masukan nama kelas: TI-22-PB
Masukan semester: 3
Masukan IPK: 3.8

=======Informasi Mahasiswa=======
NMP: 222310054
Nama Lengkap: Siti Rohmah
Nama Kelas: TI-22-PB
Semester: 3
IPK: 3.8
```
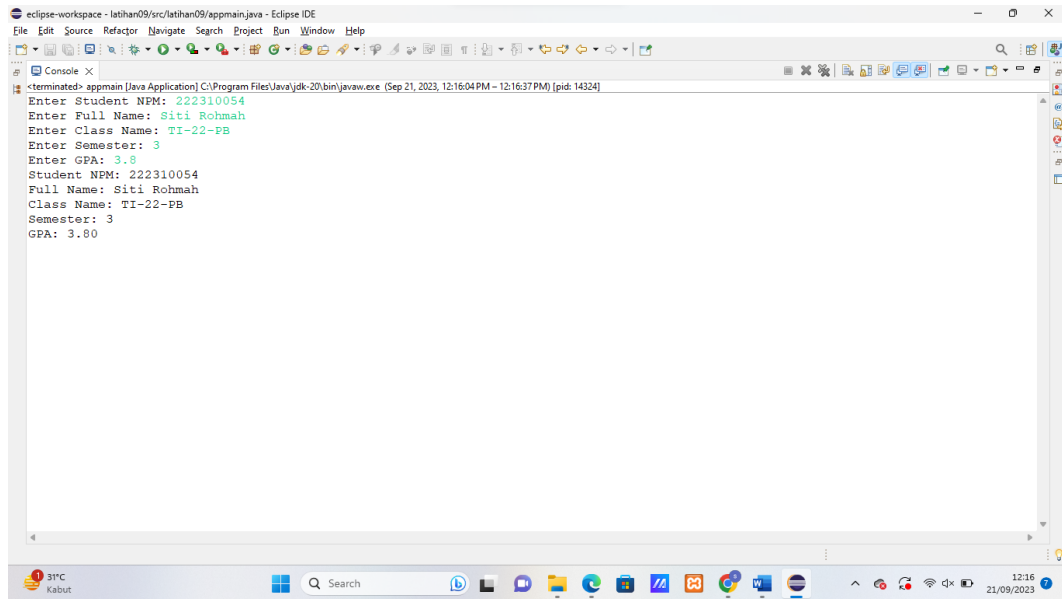
Latihan 09


```java
package latihan09;

public class Students {
    private int NPM;
    private String FullName;
    private String ClassName;
    private int Semester;
    private float GPA;

    public Students(int NPM, String FullName, String ClassName, int Semester, float GPA) {
        this.NPM = NPM;
        this.FullName = FullName;
        this.ClassName = ClassName;
        this.Semester = Semester;
        this.GPA = GPA;
    }

    public void displayStudentInfo() {
        System.out.println("Student NPM: " + NPM);
        System.out.println("Full Name: " + FullName);
        System.out.println("Class Name: " + ClassName);
        System.out.println("Semester: " + Semester);
        System.out.printf("GPA: %.2f%n", GPA);
    }
}
```
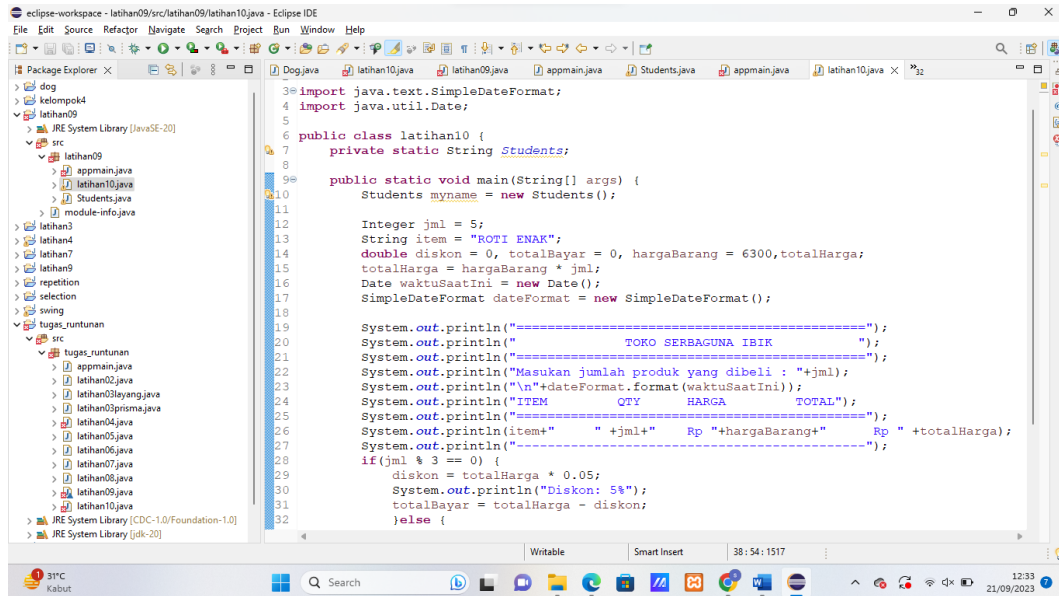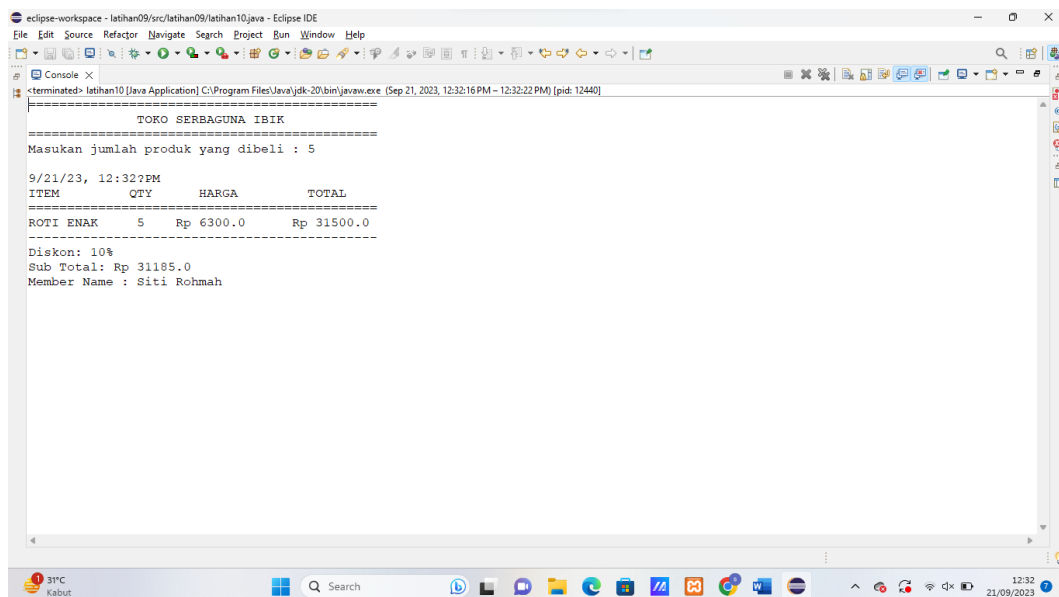


```java
package latihan09;

import java.util.Scanner;

public class appmain {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter Student NPM: ");
        int NPM = scanner.nextInt();
        scanner.nextLine();

        System.out.print("Enter Full Name: ");
        String FullName = scanner.nextLine();

        System.out.print("Enter Class Name: ");
        String ClassName = scanner.nextLine();

        System.out.print("Enter Semester: ");
        int Semester = scanner.nextInt();

        System.out.print("Enter GPA: ");
        float GPA = scanner.nextFloat();

        Students student1 = new Students(NPM, FullName, ClassName, Semester, GPA);

        student1.displayStudentInfo();

        scanner.close();
    }
}
```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Console ×

```
<terminated> appmain [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 21, 2023, 12:16:04 PM – 12:16:37 PM) [pid: 14324]
Enter Student NPM: 222310054
Enter Full Name: Siti Rohmah
Enter Class Name: TI-22-PB
Enter Semester: 3
Enter GPA: 3.8
Student NPM: 222310054
Full Name: Siti Rohmah
Class Name: TI-22-PB
Semester: 3
GPA: 3.80
```

Latihan 10


```java
import java.text.SimpleDateFormat;
import java.util.Date;

public class latihan10 {
    private static String Students;

    public static void main(String[] args) {
        Students myname = new Students();

        Integer jml = 5;
        String item = "ROTI ENAK";
        double diskon = 0, totalBayar = 0, hargaBarang = 6300,totalHarga;
        totalHarga = hargaBarang * jml;
        Date waktuSaatIni = new Date();
        SimpleDateFormat dateFormat = new SimpleDateFormat();

        System.out.println("==============================================");
        System.out.println("              TOKO SERBAGUNA IBIK             ");
        System.out.println("==============================================");
        System.out.println("Masukan jumlah produk yang dibeli : "+jml);
        System.out.println("\n"+dateFormat.format(waktuSaatIni));
        System.out.println("ITEM          QTY       HARGA          TOTAL");
        System.out.println("==============================================");
        System.out.println(item+"      " +jml+"     Rp "+hargaBarang+"      Rp " +totalHarga);
        System.out.println("----------------------------------------------");
        if(jml % 3 == 0) {
            diskon = totalHarga * 0.05;
            System.out.println("Diskon: 5%");
            totalBayar = totalHarga - diskon;
            }else {
```



```
==============================================
              TOKO SERBAGUNA IBIK
==============================================
Masukan jumlah produk yang dibeli : 5

9/21/23, 12:32?PM
ITEM          QTY       HARGA          TOTAL
==============================================
ROTI ENAK     5     Rp 6300.0      Rp 31500.0
----------------------------------------------
Diskon: 10%
Sub Total: Rp 31185.0
Member Name : Siti Rohmah
```