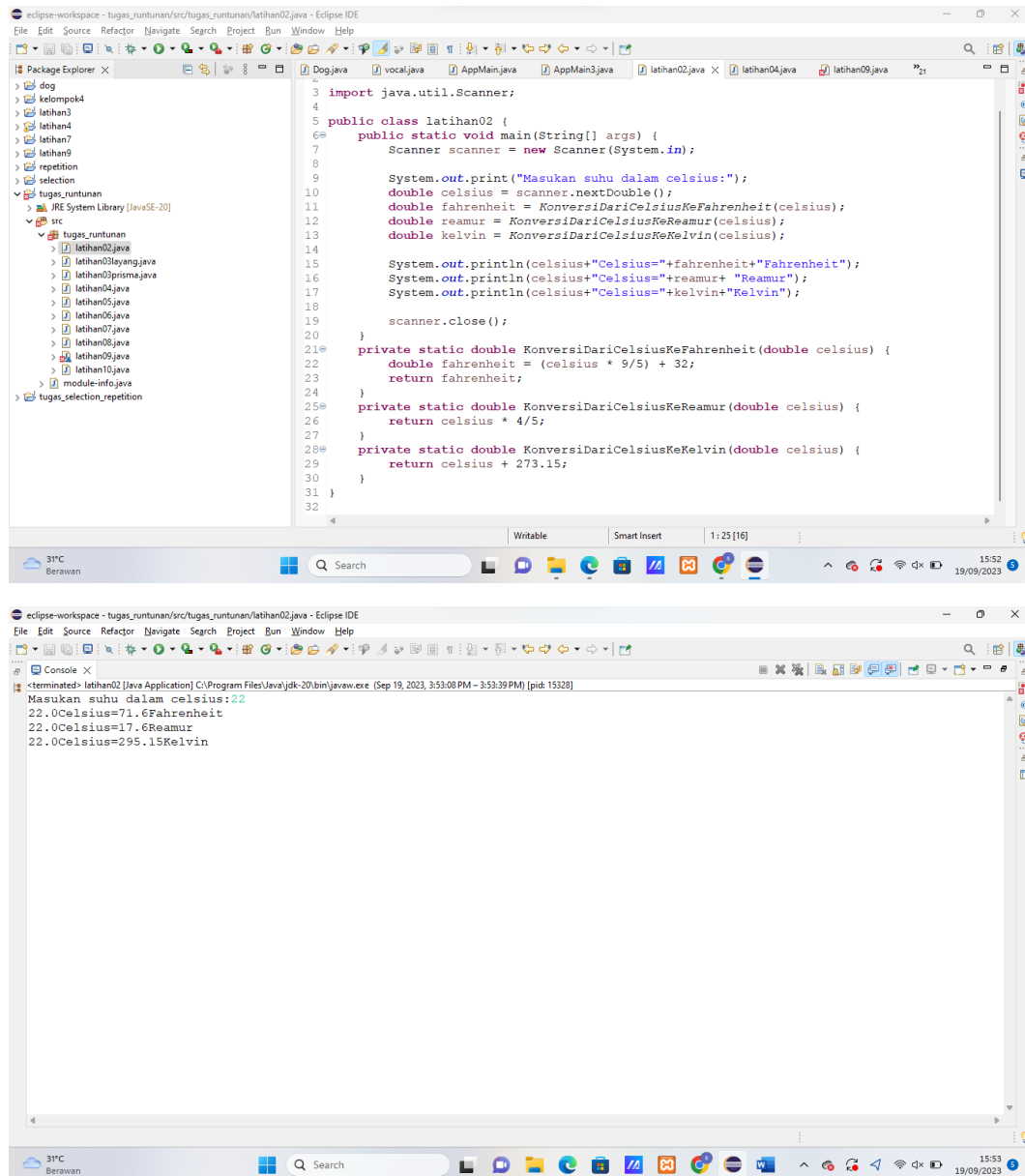


Nama: Siti Rohmah

NMP: 222310054

Kelas: TI-22-PB

Latihan 02



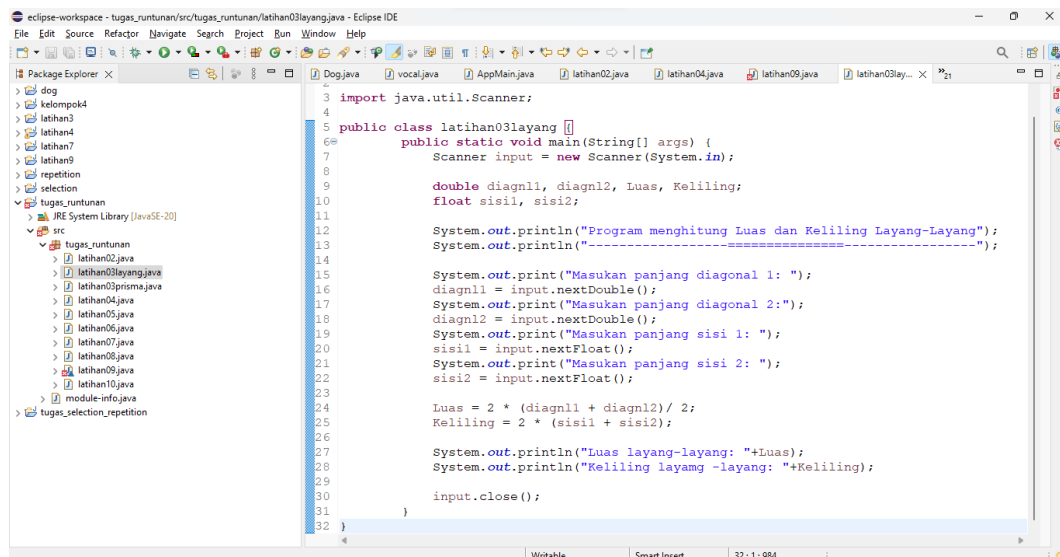
The screenshot displays the Eclipse IDE environment. The top window shows the source code for `latihan02.java`. The code imports `java.util.Scanner` and defines a `public class latihan02` with a `main` method. The `main` method prompts the user to enter a temperature in Celsius, reads the input, and then uses three static methods to convert the Celsius value to Fahrenheit, Reamur, and Kelvin. The bottom window shows the console output, where the user has entered `22` for Celsius, resulting in the following conversions: `22.0Celsius=71.6Fahrenheit`, `22.0Celsius=17.6Reamur`, and `22.0Celsius=295.15Kelvin`.

```
3 import java.util.Scanner;
4
5 public class latihan02 {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Masukan suhu dalam celsius:");
10        double celsius = scanner.nextDouble();
11        double fahrenheit = KonversiDariCelsiusKeFahrenheit(celsius);
12        double reamur = KonversiDariCelsiusKeReamur(celsius);
13        double kelvin = KonversiDariCelsiusKeKelvin(celsius);
14
15        System.out.println(celsius+"Celsius="+fahrenheit+"Fahrenheit");
16        System.out.println(celsius+"Celsius="+reamur+"Reamur");
17        System.out.println(celsius+"Celsius="+kelvin+"Kelvin");
18
19        scanner.close();
20    }
21
22    private static double KonversiDariCelsiusKeFahrenheit(double celsius) {
23        double fahrenheit = (celsius * 9/5) + 32;
24        return fahrenheit;
25    }
26
27    private static double KonversiDariCelsiusKeReamur(double celsius) {
28        return celsius * 4/5;
29    }
30
31    private static double KonversiDariCelsiusKeKelvin(double celsius) {
32        return celsius + 273.15;
33    }
34 }
```

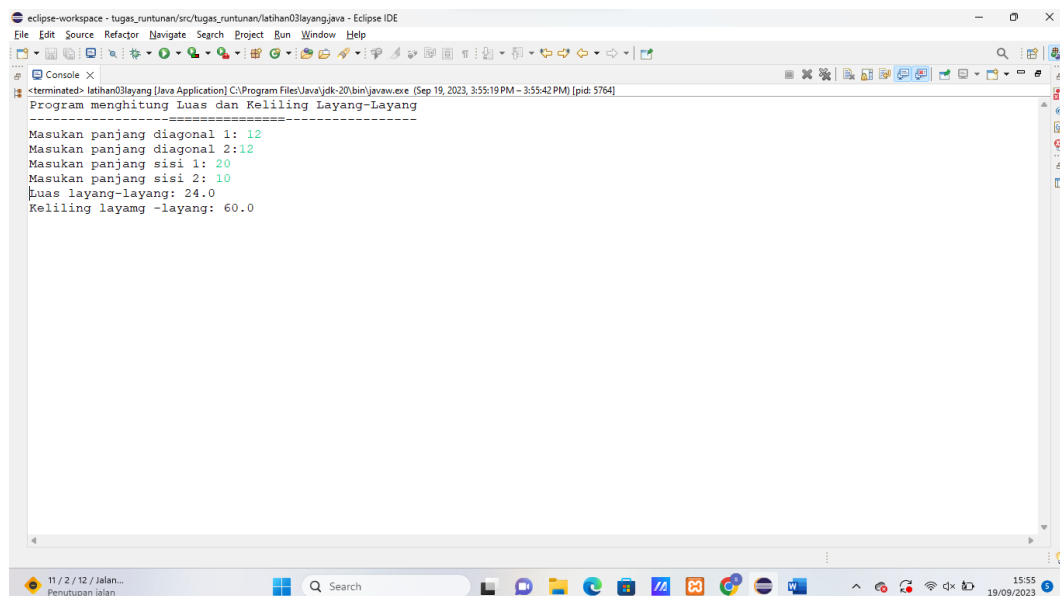
<terminated> latihan02 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 3:53:08 PM - 3:53:39 PM) [pid: 15328]

```
Masukan suhu dalam celsius:22
22.0Celsius=71.6Fahrenheit
22.0Celsius=17.6Reamur
22.0Celsius=295.15Kelvin
```

Latihan 03 layang-layang

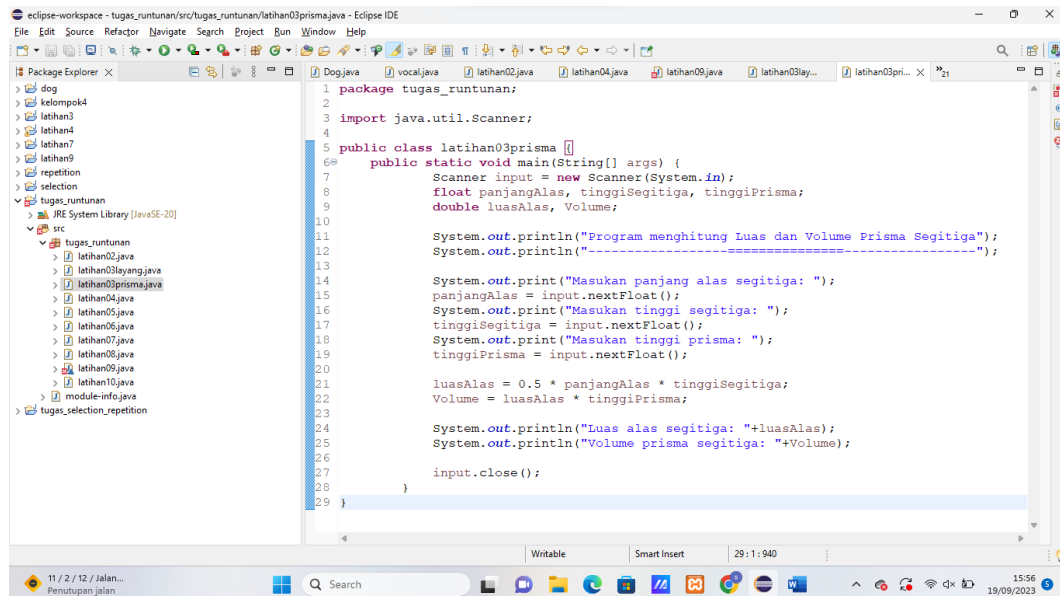


```
1  import java.util.Scanner;
2
3  public class latihan03layang {
4      public static void main(String[] args) {
5          Scanner input = new Scanner(System.in);
6
7          double diagn1, diagn2, Luas, Keliling;
8          float sisi1, sisi2;
9
10         System.out.println("Program menghitung Luas dan Keliling Layang-Layang");
11         System.out.println("-----");
12
13         System.out.print("Masukan panjang diagonal 1: ");
14         diagn1 = input.nextDouble();
15         System.out.print("Masukan panjang diagonal 2:");
16         diagn2 = input.nextDouble();
17         System.out.print("Masukan panjang sisi 1: ");
18         sisi1 = input.nextFloat();
19         System.out.print("Masukan panjang sisi 2: ");
20         sisi2 = input.nextFloat();
21
22         Luas = 2 * (diagn1 + diagn2) / 2;
23         Keliling = 2 * (sisi1 + sisi2);
24
25         System.out.println("Luas layang-layang: "+Luas);
26         System.out.println("Keliling layang -layang: "+Keliling);
27
28         input.close();
29     }
30 }
31
32 }
```



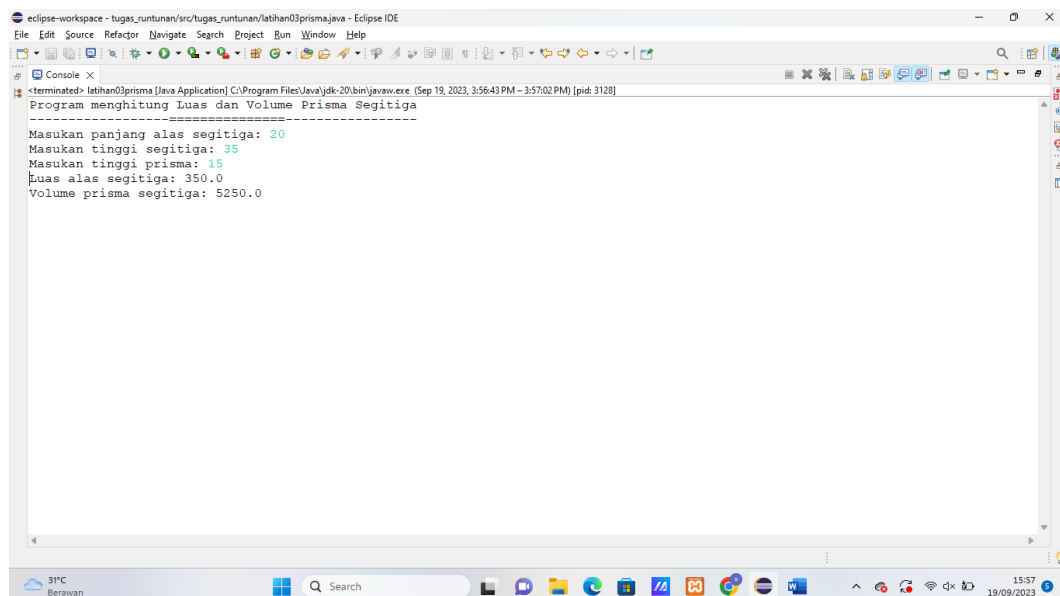
```
<terminated> latihan03layang [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 3:55:19 PM - 3:55:42 PM) [pid: 5764]
Program menghitung Luas dan Keliling Layang-Layang
-----
Masukan panjang diagonal 1: 12
Masukan panjang diagonal 2:12
Masukan panjang sisi 1: 20
Masukan panjang sisi 2: 10
Luas layang-layang: 24.0
Keliling layang -layang: 60.0
```

Latihan 03 prisma segitiga



The screenshot shows the Eclipse IDE with the file 'latihan03prisma.java' open. The code is as follows:

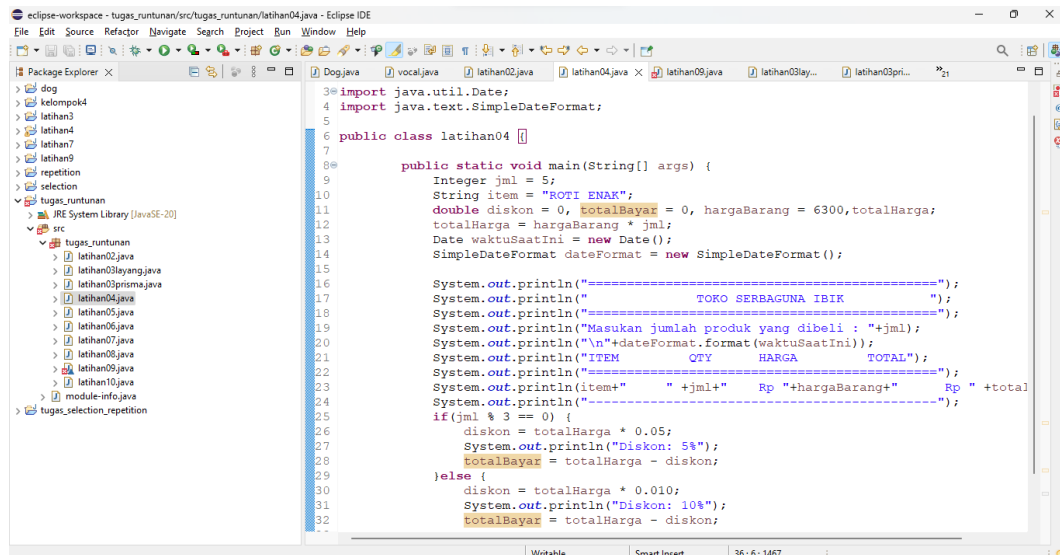
```
1 package tugas_runtunan;
2
3 import java.util.Scanner;
4
5 public class latihan03prisma {
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8         float panjangAlas, tinggiSegitiga, tinggiPrisma;
9         double luasAlas, Volume;
10
11         System.out.println("Program menghitung Luas dan Volume Prisma Segitiga");
12         System.out.println("-----");
13
14         System.out.print("Masukan panjang alas segitiga: ");
15         panjangAlas = input.nextFloat();
16         System.out.print("Masukan tinggi segitiga: ");
17         tinggiSegitiga = input.nextFloat();
18         System.out.print("Masukan tinggi prisma: ");
19         tinggiPrisma = input.nextFloat();
20
21         luasAlas = 0.5 * panjangAlas * tinggiSegitiga;
22         Volume = luasAlas * tinggiPrisma;
23
24         System.out.println("Luas alas segitiga: "+luasAlas);
25         System.out.println("Volume prisma segitiga: "+Volume);
26
27         input.close();
28     }
29 }
```



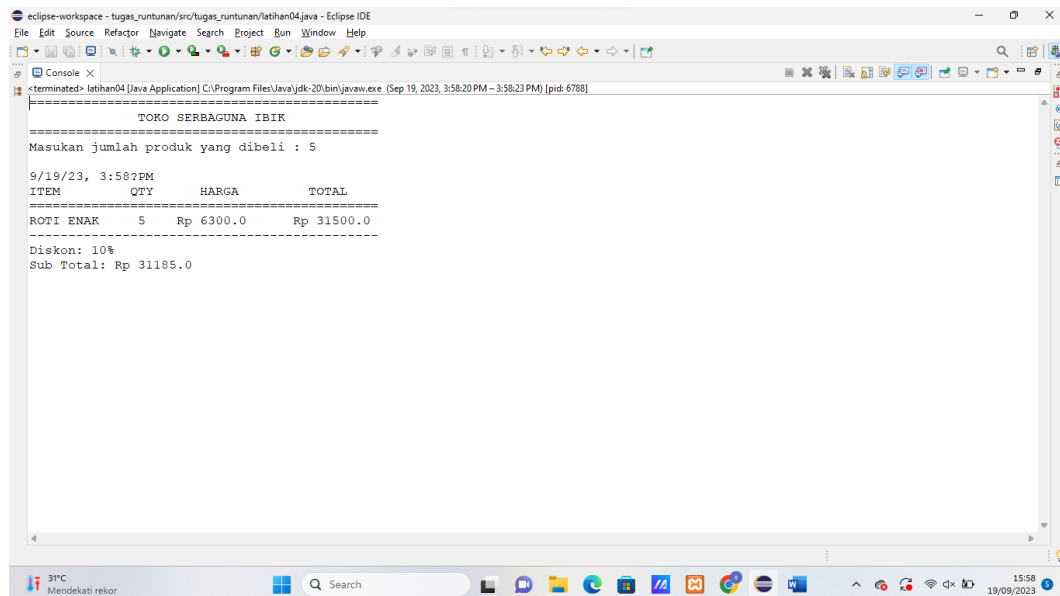
The screenshot shows the Eclipse IDE with the console output of the program. The output is as follows:

```
<terminated> latihan03prisma [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe [pid: 3128]
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

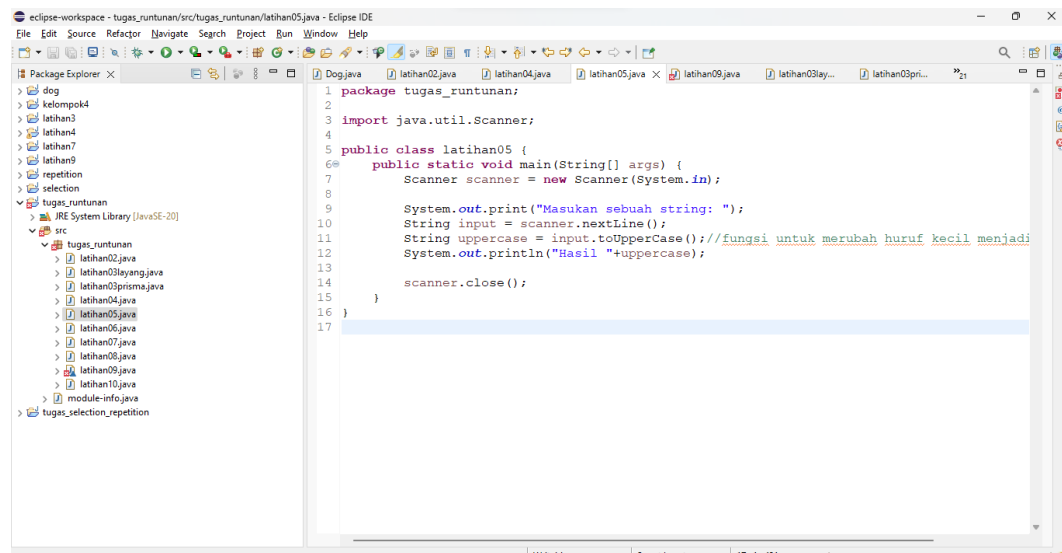


```
3 import java.util.Date;
4 import java.text.SimpleDateFormat;
5
6 public class latihan04 {
7
8     public static void main(String[] args) {
9         Integer jml = 5;
10        String item = "ROTI ENAK";
11        double diskon = 0, totalBayar = 0, hargaBarang = 6300, totalHarga;
12        totalHarga = hargaBarang * jml;
13        Date waktuSaatIni = new Date();
14        SimpleDateFormat dateFormat = new SimpleDateFormat();
15
16        System.out.println("=====");
17        System.out.println("          TORO 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;
33        }
34    }
35 }
```

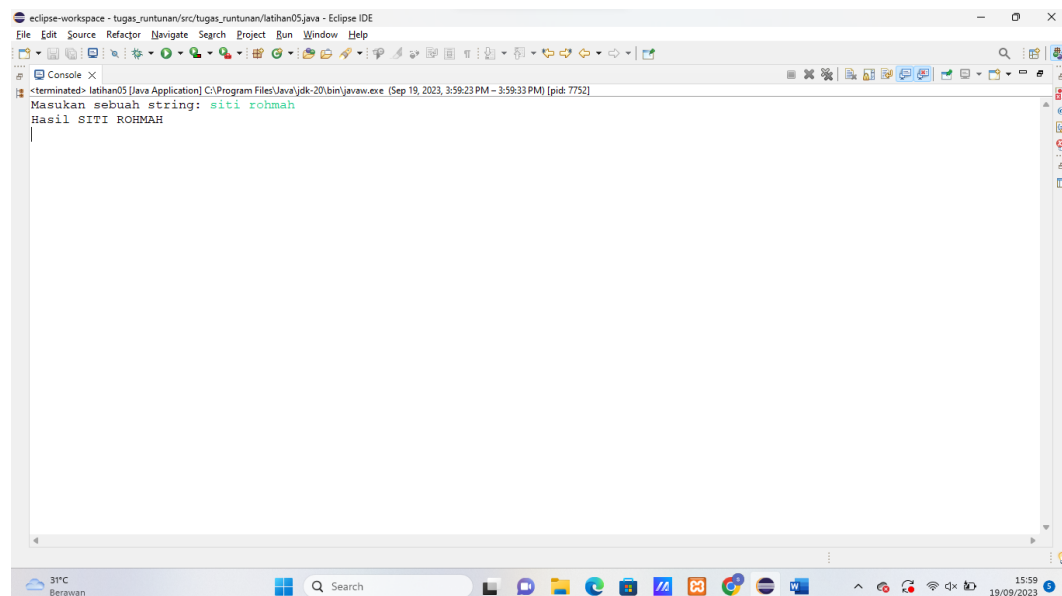


```
<terminated> latihan04 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 3:58:20 PM - 3:58:23 PM) [pid: 6788]
=====
TORO SERBAGUNA IBIK
=====
Masukan jumlah produk yang dibeli : 5
9/19/23, 3:58:PM
ITEM          QTY          HARGA          TOTAL
=====
ROTI ENAK      5          Rp 6300.0          Rp 31500.0
=====
Diskon: 10%
Sub Total: Rp 31185.0
```

Latihan 05



```
1 package tugas_runtunan;
2
3 import java.util.Scanner;
4
5 public class latihan05 {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Masukan sebuah string: ");
10        String input = scanner.nextLine();
11        String uppercase = input.toUpperCase(); //fungsi untuk merubah huruf kecil menjadi
12        System.out.println("Hasil " + uppercase);
13
14        scanner.close();
15    }
16 }
17
```



```
<terminated> latihan05 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 3:59:23 PM - 3:59:33 PM) [pid: 7752]
Masukan sebuah string: siti rohmah
Hasil SITI ROHMAH
```

Latihan 06

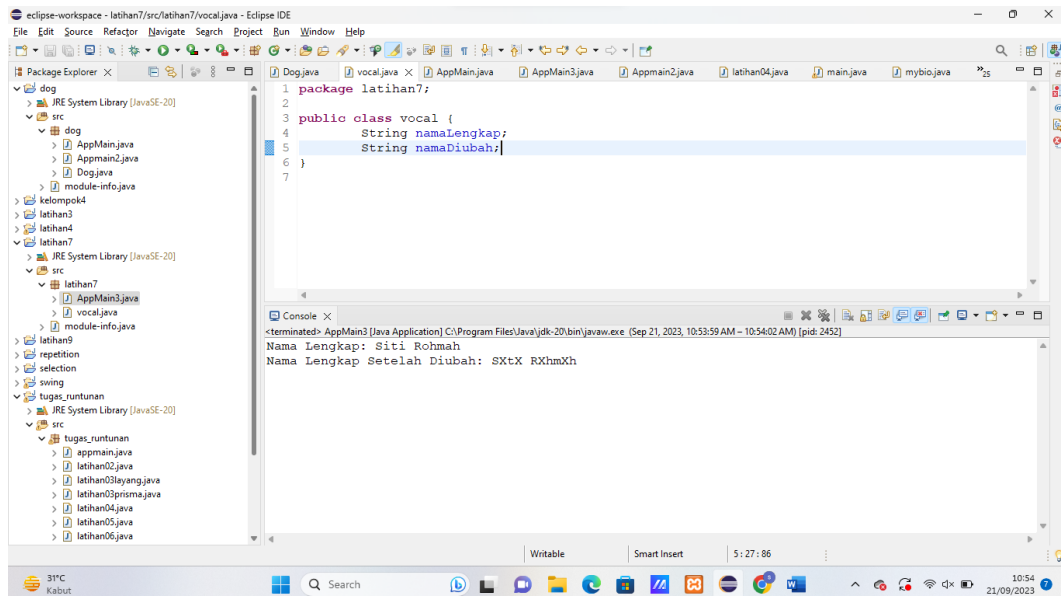
The screenshot displays the Eclipse IDE interface. The top part shows the source code for `latihan06.java` in the `tugas_runtunan` package. The code uses a `Scanner` to read user input for age, first name, last name, and NMP, then concatenates them into a single output string.

```
1 package tugas_runtunan;
2
3 import java.util.Scanner;
4
5 public class latihan06 {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Masukan usia: ");
10        int usia = scanner.nextInt();
11        scanner.nextLine();
12
13        System.out.print("Masukan first name: ");
14        String firstname = scanner.nextLine();
15
16        System.out.print("Masukan last name: ");
17        String lastname = scanner.nextLine();
18
19        System.out.print("Masukan NMP: ");
20        String npm = scanner.nextLine();
21
22        String output = usia + firstname + lastname + npm;
23
24        System.out.println("Output: "+output);
25
26        scanner.close();
27    }
28 }
29
```

The bottom part of the screenshot shows the console output after running the program. The user has entered the following values: age 20, first name Siti, last name Rohmah, and NMP 222310054. The resulting output is the concatenation of these values.

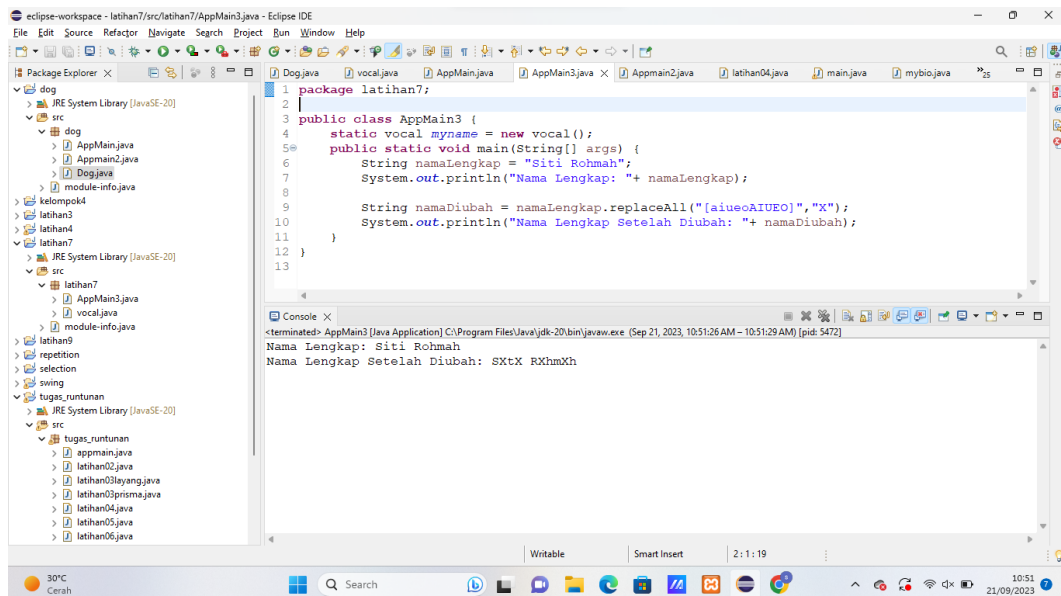
```
<terminated> latihan06 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 19, 2023, 4:00:50 PM - 4:01:20 PM) [pid: 10808]
Masukan usia: 20
Masukan first name: Siti
Masukan last name: Rohmah
Masukan NMP: 222310054
Output: 20SitiRohmah222310054
```

Latihan 07



```
1 package latihan7;
2
3 public class vocal {
4     String namaLengkap;
5     String namaDiubah;
6 }
7
```

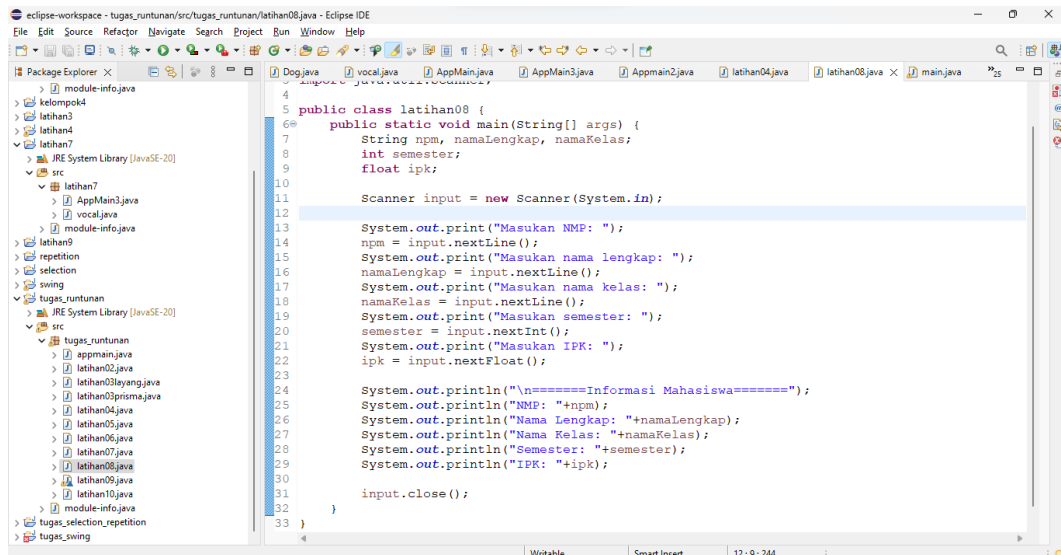
Console X
<terminated> AppMain3 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 21, 2023, 10:53:59 AM - 10:54:02 AM) [pid: 2452]
Nama Lengkap: Siti Rohmah
Nama Lengkap Setelah Diubah: SxTx RXhmXh



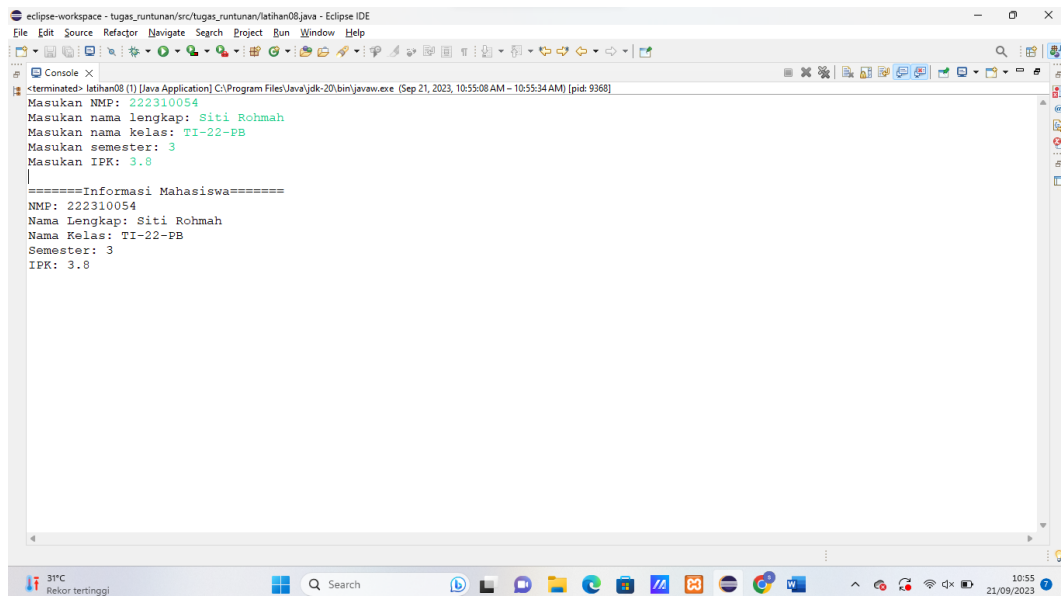
```
1 package latihan7;
2
3 public class AppMain3 {
4     static vocal myname = new vocal();
5     public static void main(String[] args) {
6         String namaLengkap = "Siti Rohmah";
7         System.out.println("Nama Lengkap: " + namaLengkap);
8
9         String namaDiubah = namaLengkap.replaceAll("[aiueoAIUEO]", "X");
10        System.out.println("Nama Lengkap Setelah Diubah: " + namaDiubah);
11    }
12 }
13
```

Console X
<terminated> AppMain3 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 21, 2023, 10:51:26 AM - 10:51:29 AM) [pid: 5472]
Nama Lengkap: Siti Rohmah
Nama Lengkap Setelah Diubah: SxTx RXhmXh

Latihan 08

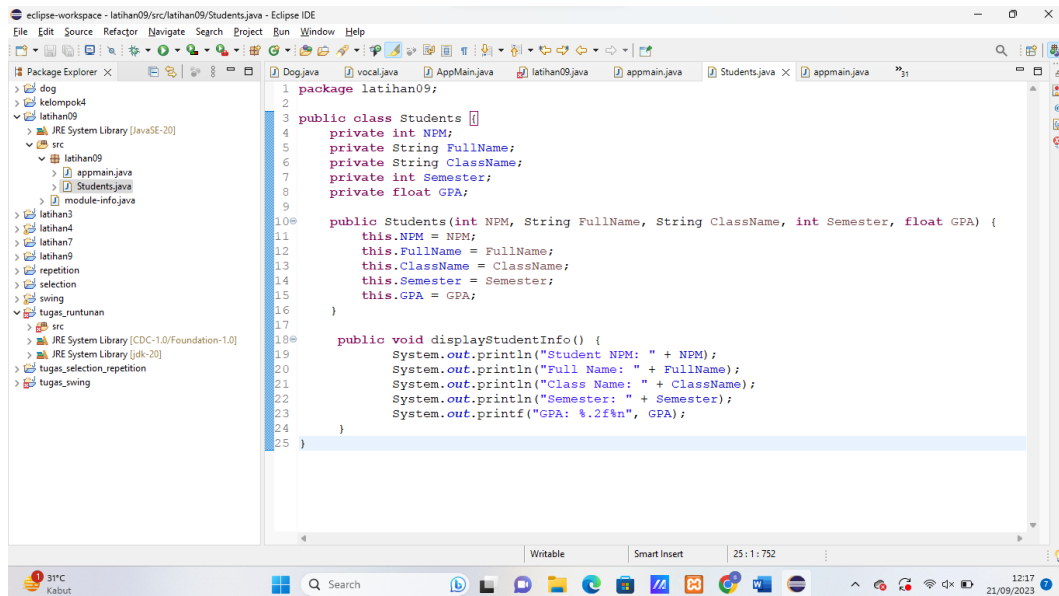


```
4
5 public class latihan08 {
6     public static void main(String[] args) {
7         String npm, namaLengkap, namaKelas;
8         int semester;
9         float ipk;
10
11         Scanner input = new Scanner(System.in);
12
13         System.out.print("Masukan NMP: ");
14         npm = input.nextLine();
15         System.out.print("Masukan nama lengkap: ");
16         namaLengkap = input.nextLine();
17         System.out.print("Masukan nama kelas: ");
18         namaKelas = input.nextLine();
19         System.out.print("Masukan semester: ");
20         semester = input.nextInt();
21         System.out.print("Masukan IPK: ");
22         ipk = input.nextFloat();
23
24         System.out.println("\n=====Informasi Mahasiswa=====");
25         System.out.println("NMP: "+npm);
26         System.out.println("Nama Lengkap: "+namaLengkap);
27         System.out.println("Nama Kelas: "+namaKelas);
28         System.out.println("Semester: "+semester);
29         System.out.println("IPK: "+ipk);
30
31         input.close();
32     }
33 }
```



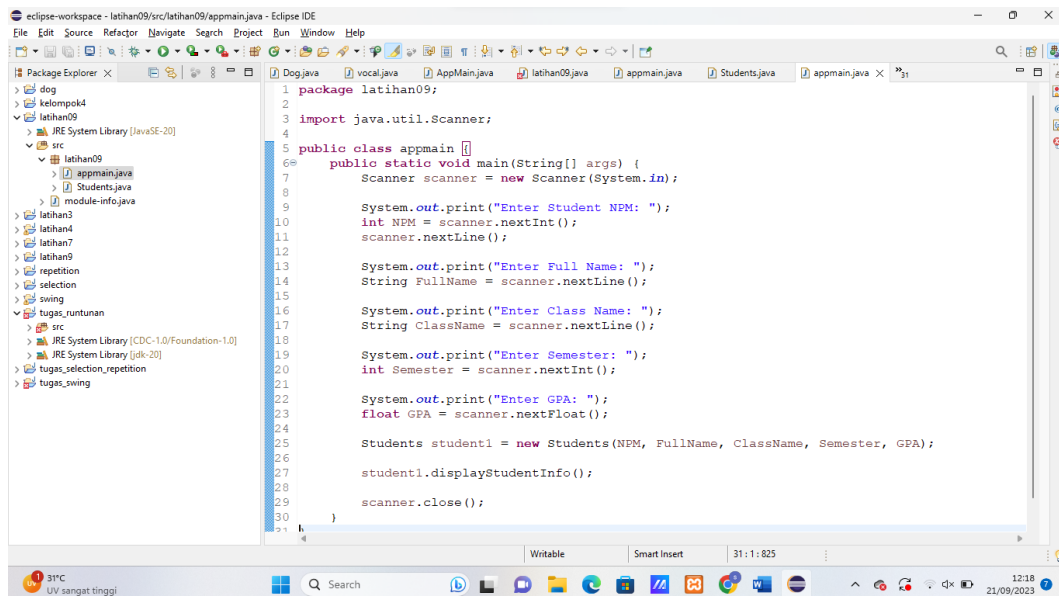
```
<terminated> latihan08 (1) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 21, 2023, 10:55:08 AM - 10:55:34 AM) [pid: 9368]
Masukan NMP: 222310054
Masukan nama lengkap: Siti Rohmah
Masukan nama kelas: TI-22-PB
Masukan semester: 3
Masukan IPK: 3.8
|
=====Informasi Mahasiswa=====
NMP: 222310054
Nama Lengkap: Siti Rohmah
Nama Kelas: TI-22-PB
Semester: 3
IPK: 3.8
```


Latihan 09



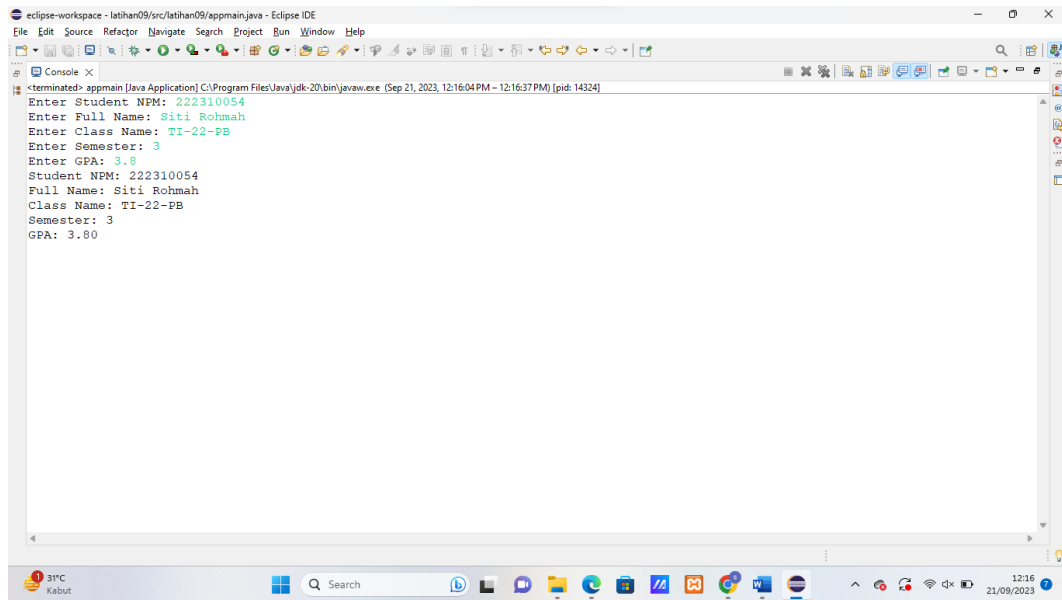
The screenshot shows the Eclipse IDE with the Package Explorer on the left and the Editor on the right. The Package Explorer shows the project structure: latihan09, latihan3, latihan4, latihan7, latihan9, repetition, selection, swing, tugas_runtunan, tugas_selection_repetition, and tugas_swing. The Editor displays the code for Students.java:

```
1 package latihan09;
2
3 public class Students {
4     private int NPM;
5     private String FullName;
6     private String ClassName;
7     private int Semester;
8     private float GPA;
9
10    public Students(int NPM, String FullName, String ClassName, int Semester, float GPA) {
11        this.NPM = NPM;
12        this.FullName = FullName;
13        this.ClassName = ClassName;
14        this.Semester = Semester;
15        this.GPA = GPA;
16    }
17
18    public void displayStudentInfo() {
19        System.out.println("Student NPM: " + NPM);
20        System.out.println("Full Name: " + FullName);
21        System.out.println("Class Name: " + ClassName);
22        System.out.println("Semester: " + Semester);
23        System.out.printf("GPA: %.2f\n", GPA);
24    }
25 }
```

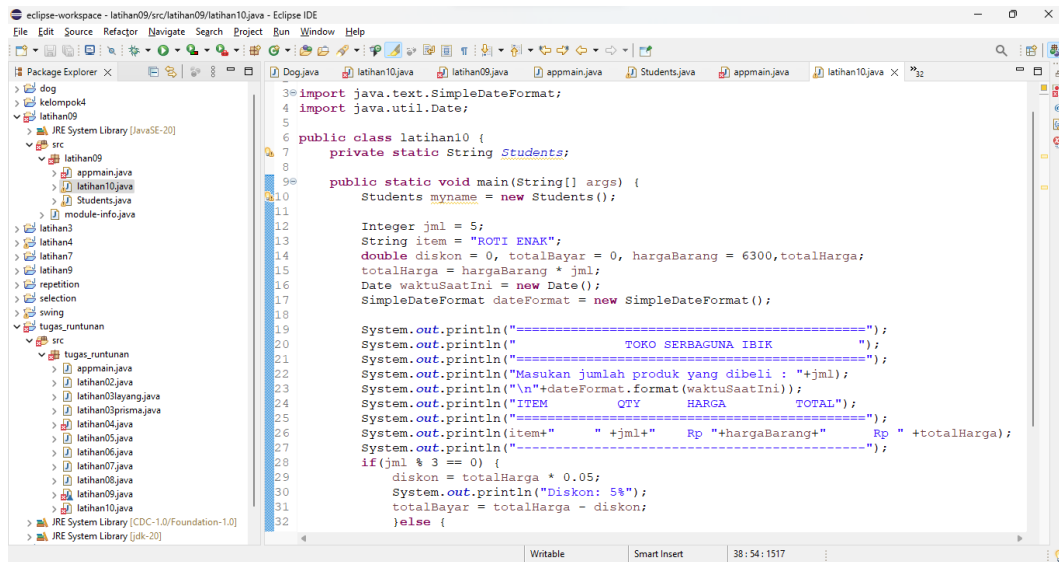


The screenshot shows the Eclipse IDE with the Package Explorer on the left and the Editor on the right. The Package Explorer shows the project structure: latihan09, latihan3, latihan4, latihan7, latihan9, repetition, selection, swing, tugas_runtunan, tugas_selection_repetition, and tugas_swing. The Editor displays the code for appmain.java:

```
1 package latihan09;
2
3 import java.util.Scanner;
4
5 public class appmain {
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
8
9         System.out.print("Enter Student NPM: ");
10        int NPM = scanner.nextInt();
11        scanner.nextLine();
12
13        System.out.print("Enter Full Name: ");
14        String FullName = scanner.nextLine();
15
16        System.out.print("Enter Class Name: ");
17        String ClassName = scanner.nextLine();
18
19        System.out.print("Enter Semester: ");
20        int Semester = scanner.nextInt();
21
22        System.out.print("Enter GPA: ");
23        float GPA = scanner.nextFloat();
24
25        Students student1 = new Students(NPM, FullName, ClassName, Semester, GPA);
26
27        student1.displayStudentInfo();
28
29        scanner.close();
30    }
31 }
```

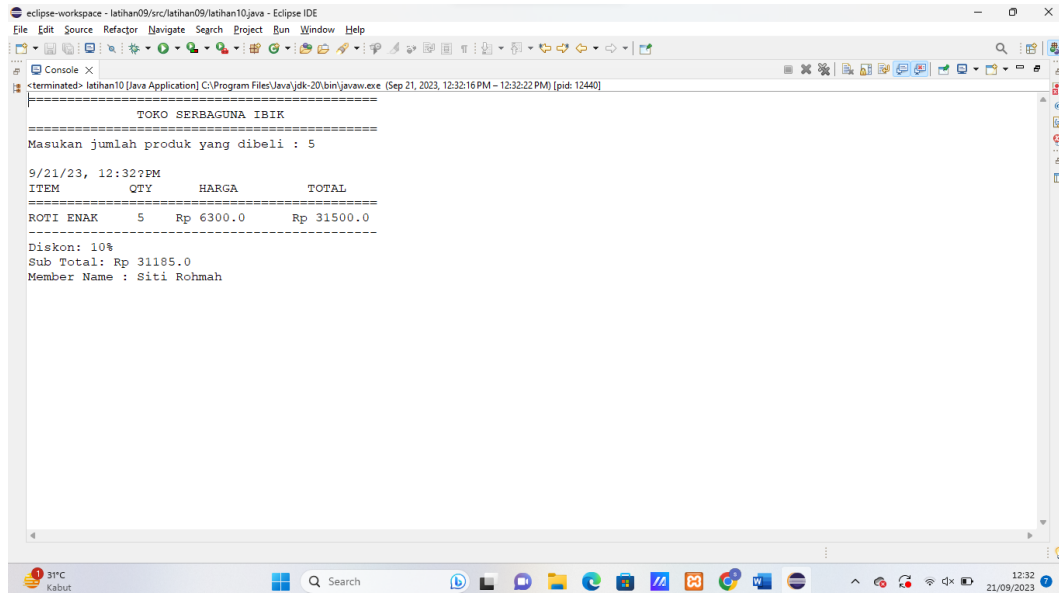


Latihan 10



The screenshot shows the Eclipse IDE with the 'latihan10.java' file open. The code is a Java program that simulates a shopping cart system. It includes imports for `SimpleDateFormat` and `Date`. The `main` method initializes a `Students` object, sets the quantity of items to 5, and defines the item as 'ROTI ENAK'. It calculates the total price based on a unit price of 6300. A 10% discount is applied, and the final total is calculated. The program uses `System.out.println` to display the results in a formatted manner.

```
3 import java.text.SimpleDateFormat;
4 import java.util.Date;
5
6 public class latihan10 {
7     private static String Students;
8
9     public static void main(String[] args) {
10         Students myname = new Students();
11
12         Integer jml = 5;
13         String item = "ROTI ENAK";
14         double diskon = 0, totalBayar = 0, hargaBarang = 6300, totalHarga;
15         totalHarga = hargaBarang * jml;
16         Date waktuSaatIni = new Date();
17         SimpleDateFormat dateFormat = new SimpleDateFormat();
18
19         System.out.println("=====");
20         System.out.println("                TOKO SERBAGUNA IBIK                ");
21         System.out.println("=====");
22         System.out.println("Masukan jumlah produk yang dibeli : "+jml);
23         System.out.println("\n"+dateFormat.format(waktuSaatIni));
24         System.out.println("ITEM          QTY          HARGA          TOTAL");
25         System.out.println("=====");
26         System.out.println(item+"          "+jml+"          Rp "+hargaBarang+"          Rp "+totalHarga);
27         System.out.println("=====");
28         if (jml % 3 == 0) {
29             diskon = totalHarga * 0.05;
30             System.out.println("Diskon: 5%");
31             totalBayar = totalHarga - diskon;
32         } else {
```



The screenshot shows the Eclipse IDE with the console output of the 'latihan10.java' program. The output displays the program's execution, including the item name, quantity, unit price, total price, and the final total after a 10% discount. The member name 'Siti Rohmah' is also displayed.

```
<terminated> latihan10 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 21, 2023, 12:32:16 PM - 12:32:22 PM) [pid: 12440]
=====
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
```