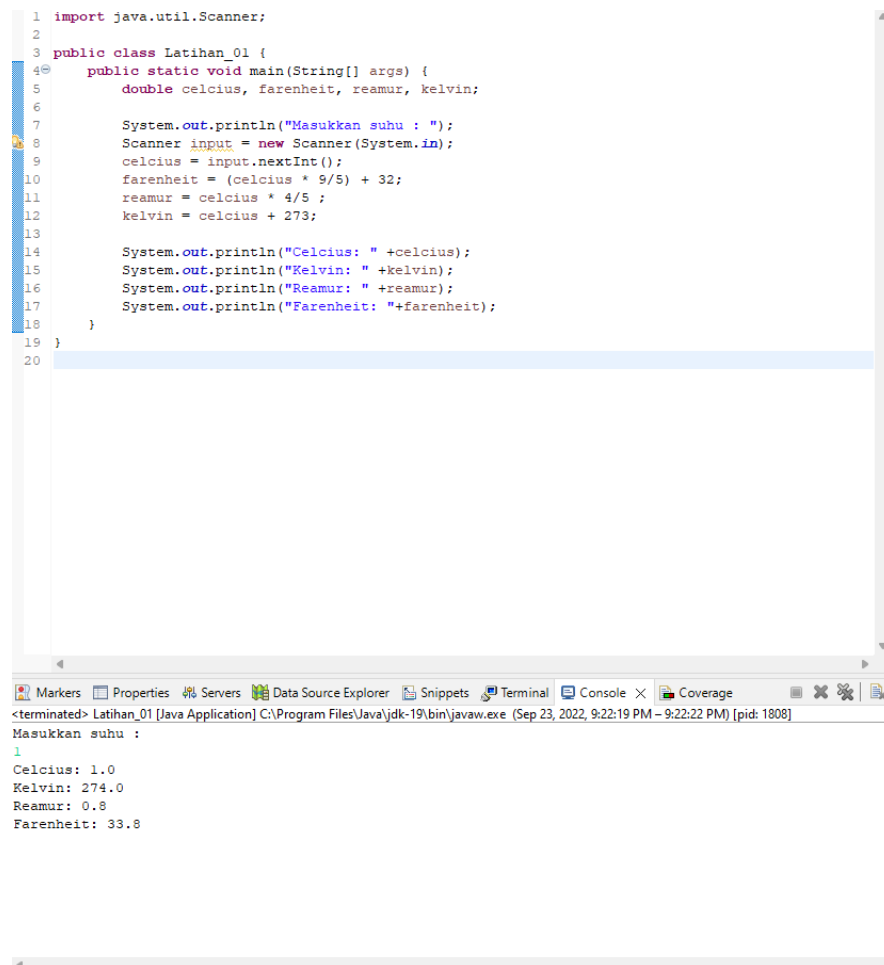212310012 – Ferdy Apriliyanto

Laporan Praktikum 1

1. Latihan 01

```java
1  import java.util.Scanner;
2
3  public class Latihan_01 {
4      public static void main(String[] args) {
5          double celcius, farenheit, reamur, kelvin;
6
7          System.out.println("Masukkan suhu : ");
8          Scanner input = new Scanner(System.in);
9          celcius = input.nextInt();
10         farenheit = (celcius * 9/5) + 32;
11         reamur = celcius * 4/5 ;
12         kelvin = celcius + 273;
13
14         System.out.println("Celcius: " +celcius);
15         System.out.println("Kelvin: " +kelvin);
16         System.out.println("Reamur: " +reamur);
17         System.out.println("Farenheit: "+farenheit);
18     }
19 }
20
```
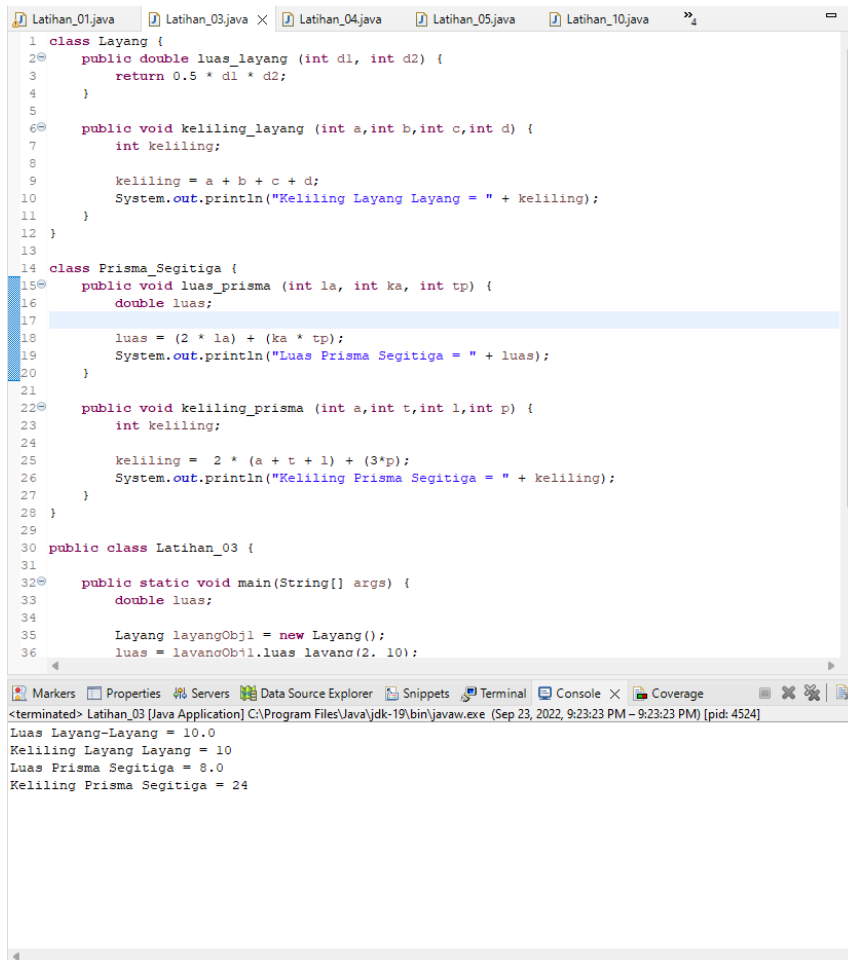
Markers | Properties | Servers | Data Source Explorer | Snippets | Terminal | Console × | Coverage

<terminated> Latihan_01 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:22:19 PM – 9:22:22 PM) [pid: 1808]

```
Masukkan suhu :
1
Celcius: 1.0
Kelvin: 274.0
Reamur: 0.8
Farenheit: 33.8
```

2. Latihan 03

```java
class Layang {
    public double luas_layang (int d1, int d2) {
        return 0.5 * d1 * d2;
    }

    public void keliling_layang (int a,int b,int c,int d) {
        int keliling;

        keliling = a + b + c + d;
        System.out.println("Keliling Layang Layang = " + keliling);
    }
}

class Prisma_Segitiga {
    public void luas_prisma (int la, int ka, int tp) {
        double luas;

        luas = (2 * la) + (ka * tp);
        System.out.println("Luas Prisma Segitiga = " + luas);
    }

    public void keliling_prisma (int a,int t,int l,int p) {
        int keliling;

        keliling =  2 * (a + t + l) + (3*p);
        System.out.println("Keliling Prisma Segitiga = " + keliling);
    }
}

public class Latihan_03 {

    public static void main(String[] args) {
        double luas;

        Layang layangObj1 = new Layang();
        luas = layangObj1.luas_layang(2, 10);
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Terminal | Console × | Coverage

`<terminated> Latihan_03 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:23:23 PM – 9:23:23 PM) [pid: 4524]`

```
Luas Layang-Layang = 10.0
Keliling Layang Layang = 10
Luas Prisma Segitiga = 8.0
Keliling Prisma Segitiga = 24
```

3. Latihan 04

```java
1  import java.util.Scanner;
7
8  public class Latihan_04 {
9      public static void main(String[] args) {
10         int jml,total_harga,harga_satuan = 6300;
11         double diskon = 0,total_bayar = 0;
12
13         DecimalFormat kursIndonesia = (DecimalFormat) DecimalFormat.getCurrencyInstance();
14         DecimalFormatSymbols formatRp = new DecimalFormatSymbols();
15
16         formatRp.setCurrencySymbol("Rp");
17         formatRp.setMonetaryDecimalSeparator(',');
18         formatRp.setGroupingSeparator('.');
19
20         System.out.println("=========================================================");
21         System.out.println("            TOKO SERBAGUNA IBIK              ");
22         System.out.println("=========================================================");
23         System.out.print("Masukkan jumlah produk yang dibeli : ");
24         Scanner input = new Scanner(System.in);
25         jml = input.nextInt();
26         input.close();
27
28         LocalDateTime myDateObj = LocalDateTime.now();
29         DateTimeFormatter myFormatObj = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
30
31         String formattedDate = myDateObj.format(myFormatObj);
32         System.out.println(formattedDate);
33
34         System.out.println();
35
36         total_harga = jml * 6300;
37
38         System.out.println("ITEM                QTY   HARGA          TOTAL");
39         System.out.println("=========================================================");
40         kursIndonesia.setDecimalFormatSymbols(formatRp);
41         System.out.printf("ROTI ENAK            " + jml + "   %s %n", kursIndonesia.format(harga
```

```
<terminated> Latihan_04 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (Sep 23, 2022, 9:26:05 PM – 9:26:08 PM) [pid: 14792]
            TOKO SERBAGUNA IBIK
=========================================================
Masukkan jumlah produk yang dibeli : 2
23-09-2022 21:26:08

ITEM                QTY   HARGA          TOTAL
=========================================================
ROTI ENAK            2     Rp6,300,00   Rp12,600,00
---------------------------------------------------------
Diskon : 10%
Sub Total: Rp12,474,00
```
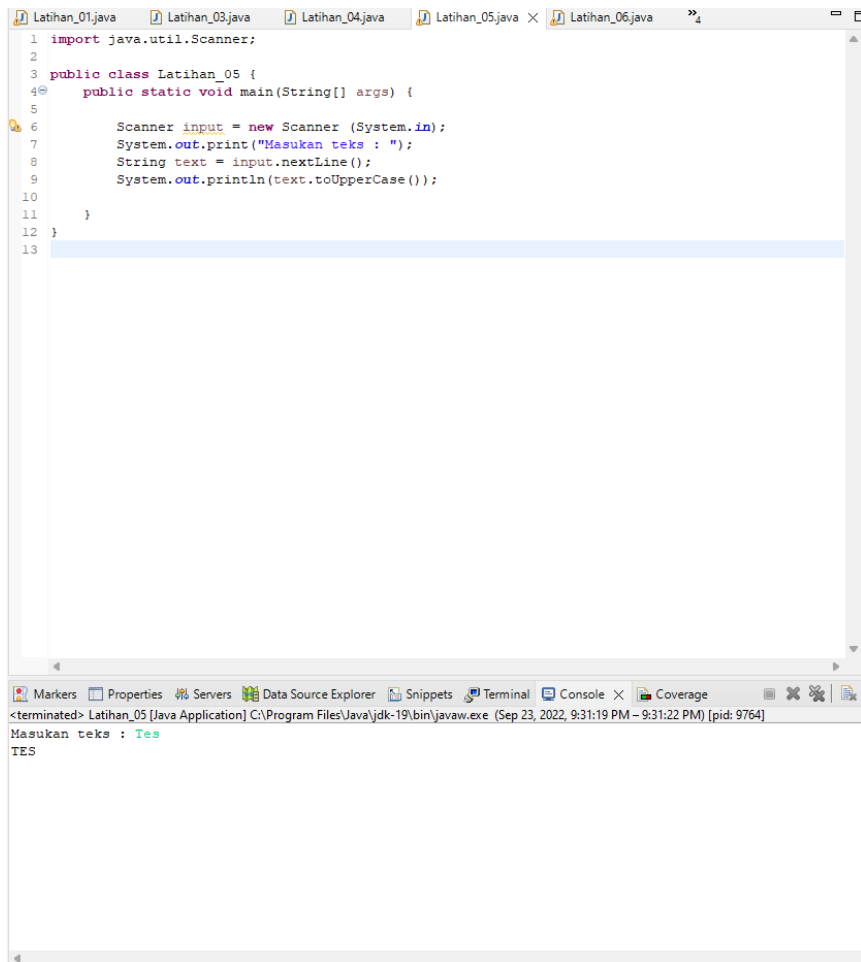
4. Latihan 05
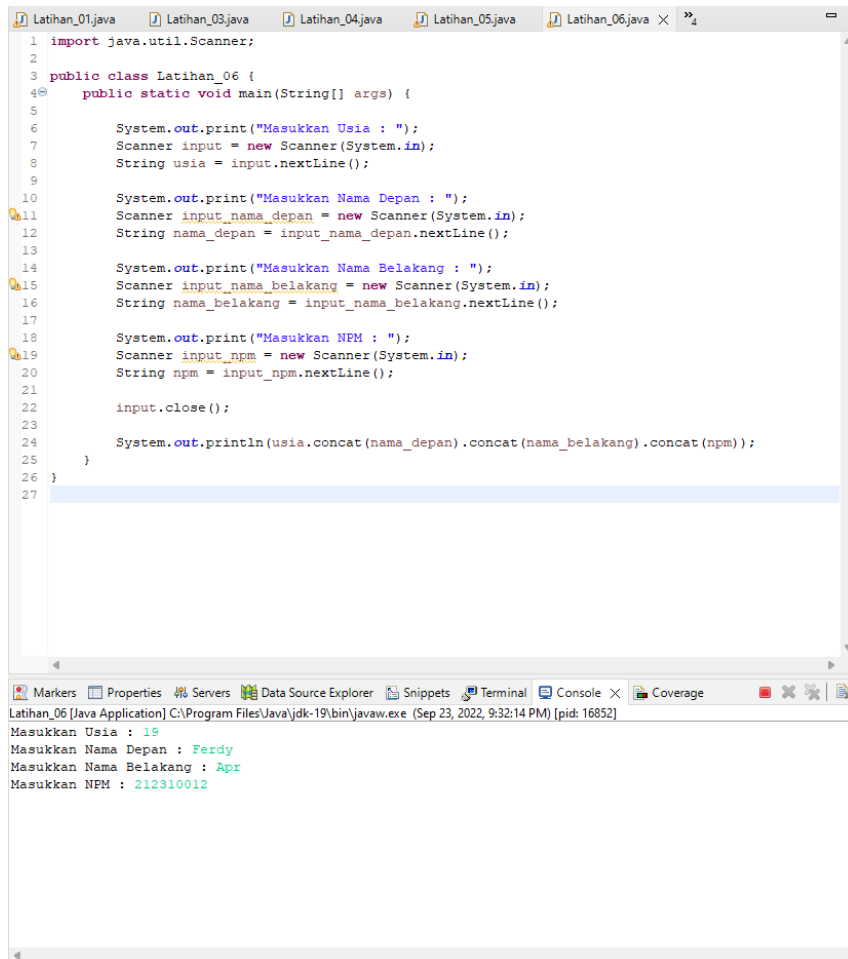
```java
import java.util.Scanner;

public class Latihan_05 {
    public static void main(String[] args) {

        Scanner input = new Scanner (System.in);
        System.out.print("Masukan teks : ");
        String text = input.nextLine();
        System.out.println(text.toUpperCase());

    }
}
```

<terminated> Latihan_05 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:31:19 PM – 9:31:22 PM) [pid: 9764]
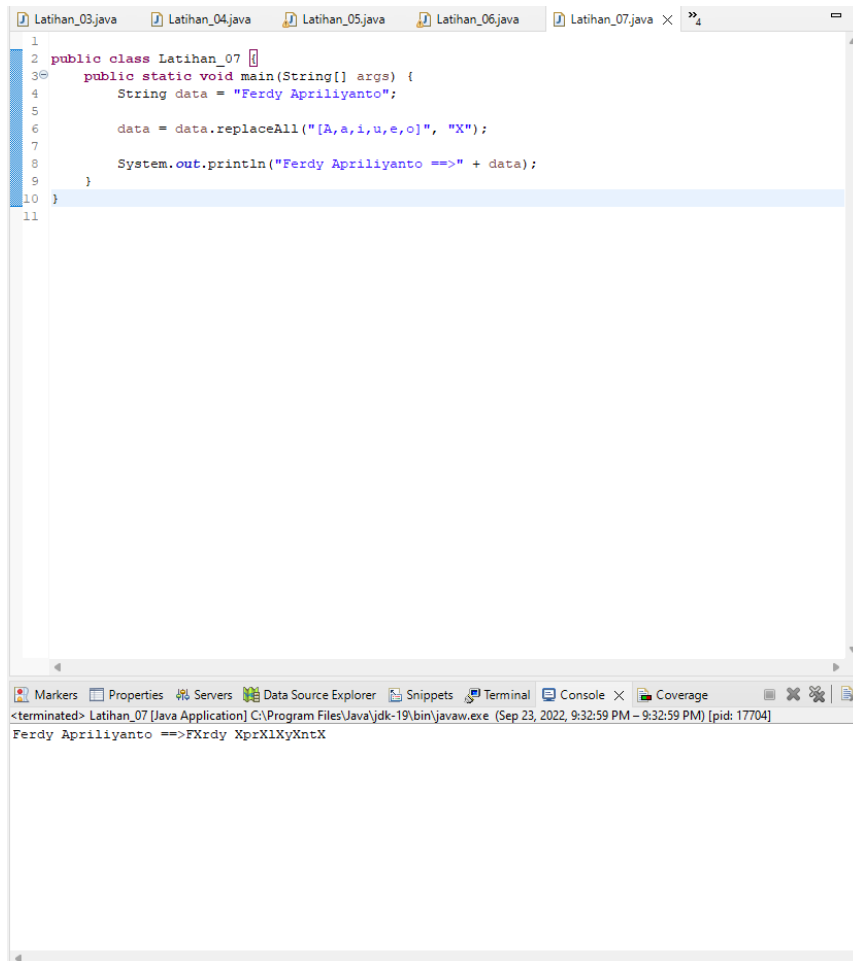Masukan teks : Tes
TES

5. Latihan 06

```java
import java.util.Scanner;

public class Latihan_06 {
    public static void main(String[] args) {

        System.out.print("Masukkan Usia : ");
        Scanner input = new Scanner(System.in);
        String usia = input.nextLine();

        System.out.print("Masukkan Nama Depan : ");
        Scanner input_nama_depan = new Scanner(System.in);
        String nama_depan = input_nama_depan.nextLine();

        System.out.print("Masukkan Nama Belakang : ");
        Scanner input_nama_belakang = new Scanner(System.in);
        String nama_belakang = input_nama_belakang.nextLine();

        System.out.print("Masukkan NPM : ");
        Scanner input_npm = new Scanner(System.in);
        String npm = input_npm.nextLine();

        input.close();

        System.out.println(usia.concat(nama_depan).concat(nama_belakang).concat(npm));
    }
}
```

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Latihan_06 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:32:14 PM) [pid: 16852]

```
Masukkan Usia : 19
Masukkan Nama Depan : Ferdy
Masukkan Nama Belakang : Apr
Masukkan NPM : 212310012
```
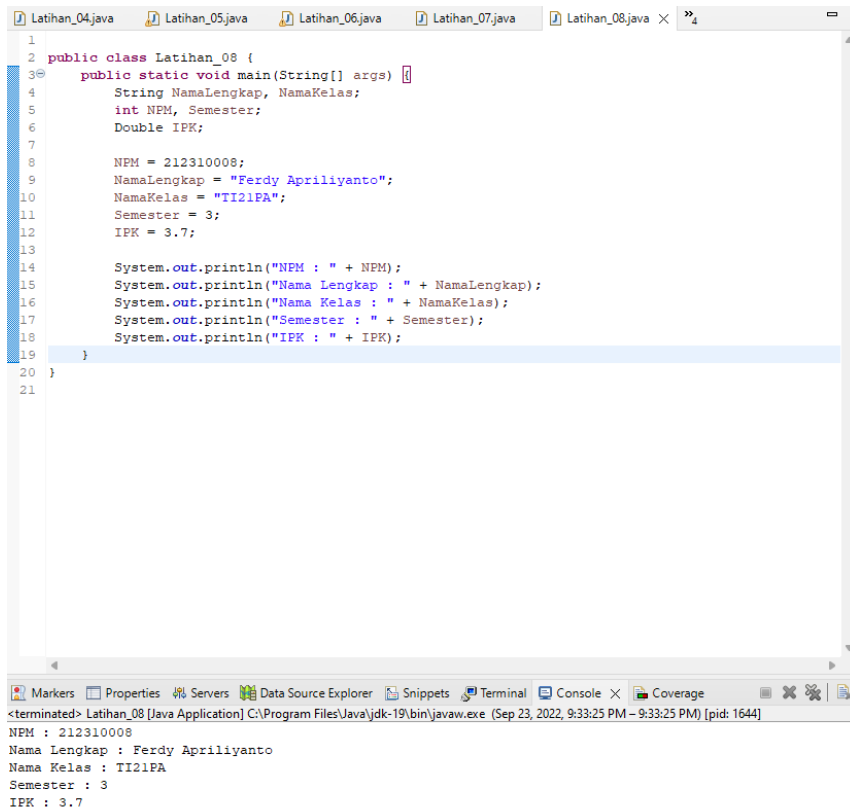
6. Latihan 07


```
1
2  public class Latihan_07 {
3⊖     public static void main(String[] args) {
4          String data = "Ferdy Apriliyanto";
5
6          data = data.replaceAll("[A,a,i,u,e,o]", "X");
7
8          System.out.println("Ferdy Apriliyanto ==>" + data);
9      }
10 }
11
```

```
Markers  Properties  Servers  Data Source Explorer  Snippets  Terminal  Console ✕  Coverage
<terminated> Latihan_07 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:32:59 PM – 9:32:59 PM) [pid: 17704]
Ferdy Apriliyanto ==>FXrdy XprX1XyXntX
```
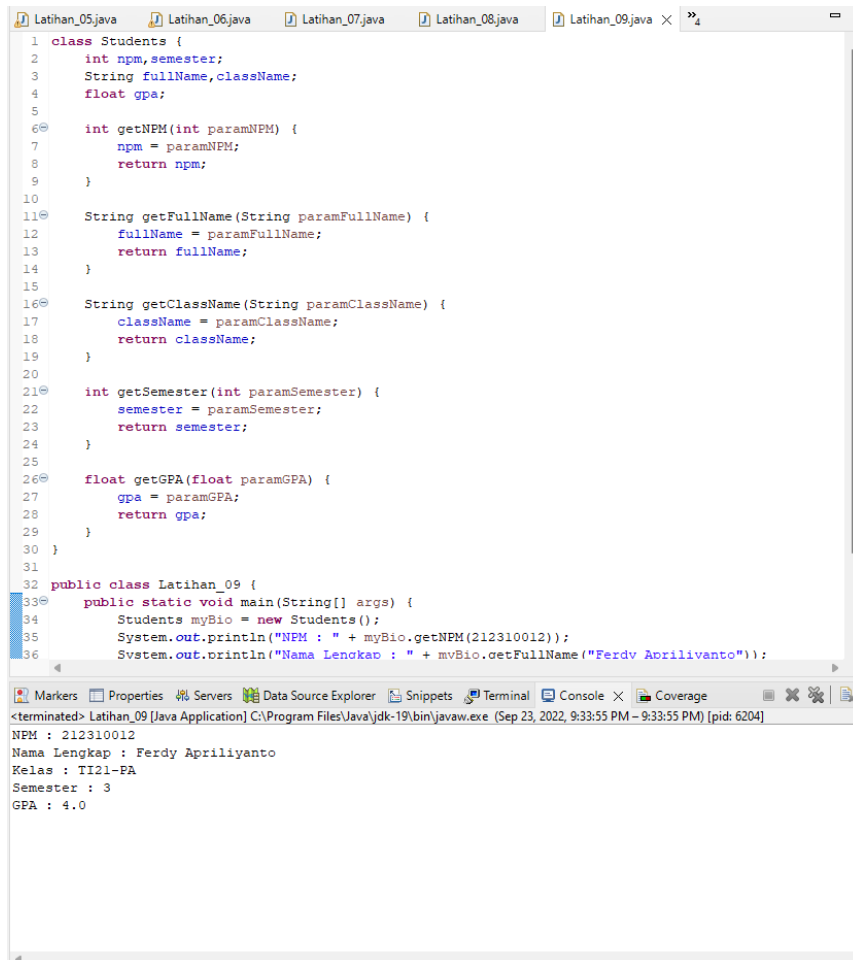
7. Latihan 08


```java
public class Latihan_08 {
    public static void main(String[] args) {
        String NamaLengkap, NamaKelas;
        int NPM, Semester;
        Double IPK;

        NPM = 212310008;
        NamaLengkap = "Ferdy Apriliyanto";
        NamaKelas = "TI21PA";
        Semester = 3;
        IPK = 3.7;

        System.out.println("NPM : " + NPM);
        System.out.println("Nama Lengkap : " + NamaLengkap);
        System.out.println("Nama Kelas : " + NamaKelas);
        System.out.println("Semester : " + Semester);
        System.out.println("IPK : " + IPK);
    }
}
```

<terminated> Latihan_08 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:33:25 PM – 9:33:25 PM) [pid: 1644]

```
NPM : 212310008
Nama Lengkap : Ferdy Apriliyanto
Nama Kelas : TI21PA
Semester : 3
IPK : 3.7
```

8. Latihan 09

```java
class Students {
    int npm, semester;
    String fullName, className;
    float gpa;

    int getNPM(int paramNPM) {
        npm = paramNPM;
        return npm;
    }

    String getFullName(String paramFullName) {
        fullName = paramFullName;
        return fullName;
    }

    String getClassName(String paramClassName) {
        className = paramClassName;
        return className;
    }

    int getSemester(int paramSemester) {
        semester = paramSemester;
        return semester;
    }

    float getGPA(float paramGPA) {
        gpa = paramGPA;
        return gpa;
    }
}

public class Latihan_09 {
    public static void main(String[] args) {
        Students myBio = new Students();
        System.out.println("NPM : " + myBio.getNPM(212310012));
        System.out.println("Nama Lengkap : " + myBio.getFullName("Ferdy Apriliyanto"));
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Terminal | Console × | Coverage
<terminated> Latihan_09 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:33:55 PM – 9:33:55 PM) [pid: 6204]

```
NPM : 212310012
Nama Lengkap : Ferdy Apriliyanto
Kelas : TI21-PA
Semester : 3
GPA : 4.0
```

9. Latihan 10

```java
25        System.out.print("Masukkan jumlah produk yang dibeli : ");
26        Scanner input = new Scanner(System.in);
27        jml = input.nextInt();
28        input.close();
29
30        LocalDateTime myDateObj = LocalDateTime.now();
31        DateTimeFormatter myFormatObj = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
32
33        String formattedDate = myDateObj.format(myFormatObj);
34        System.out.println(formattedDate);
35
36        System.out.println();
37
38        total_harga = jml * 6300;
39
40        System.out.println("ITEM                    QTY   HARGA           TOTAL");
41        System.out.println("================================================");
42        kursIndonesia.setDecimalFormatSymbols(formatRp);
43        System.out.printf("ROTI ENAK           " + jml + "    %s %n", kursIndonesia.format(harga
44        System.out.println("--------------------------------------------");
45        if(jml % 3 == 0) {
46            diskon = 0.05 * total_harga;
47            total_bayar = total_harga - diskon;
48            System.out.println("Diskon : 5%");
49        }else {
50            diskon = 0.010 * total_harga;
51            total_bayar = total_harga - diskon;
52            System.out.println("Diskon : 10%");
53        }
54
55        kursIndonesia.setDecimalFormatSymbols(formatRp);
56        System.out.printf("Sub Total: %s %n", kursIndonesia.format(total_bayar));
57        System.out.println("Nama Member : " + myName.getFullName("Ferdy Apriliyanto"));
58    }
59 }
60
```

```
<terminated> Latihan_10 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Sep 23, 2022, 9:34:31 PM – 9:34:34 PM) [pid: 15448]
==========================================
Masukkan jumlah produk yang dibeli : 3
23-09-2022 21:34:34

ITEM                QTY   HARGA           TOTAL
==========================================
ROTI ENAK            3    Rp. 6,300,00    Rp. 18,900,00
--------------------------------------------
Diskon : 5%
Sub Total: Rp. 17,955,00
Nama Member : Ferdy Apriliyanto
```