

**LAPORAN PRAKTIKUM
MODUL 3
VARIABLE DAN METHOD
PRAKTIKUM PEMROGRAMAN
BERORIENTASI OBJEK**



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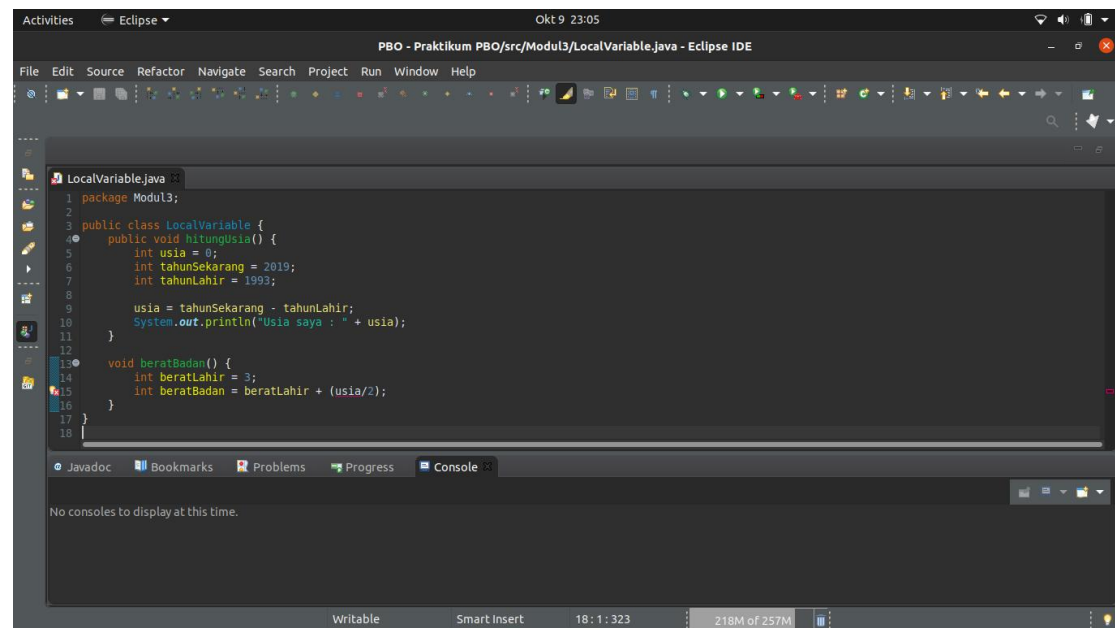
INFORMATIKA

FAKULTAS KOMUNIKASI DAN
INFORMATIKA

UNIVERSITAS MUHAMMADIYAH
SURAKARTA

2020

Latihan 1



The screenshot shows the Eclipse IDE with a project named 'PBO - Praktikum PBO/src/Modul3/LocalVariable.java'. The code in 'LocalVariable.java' is as follows:

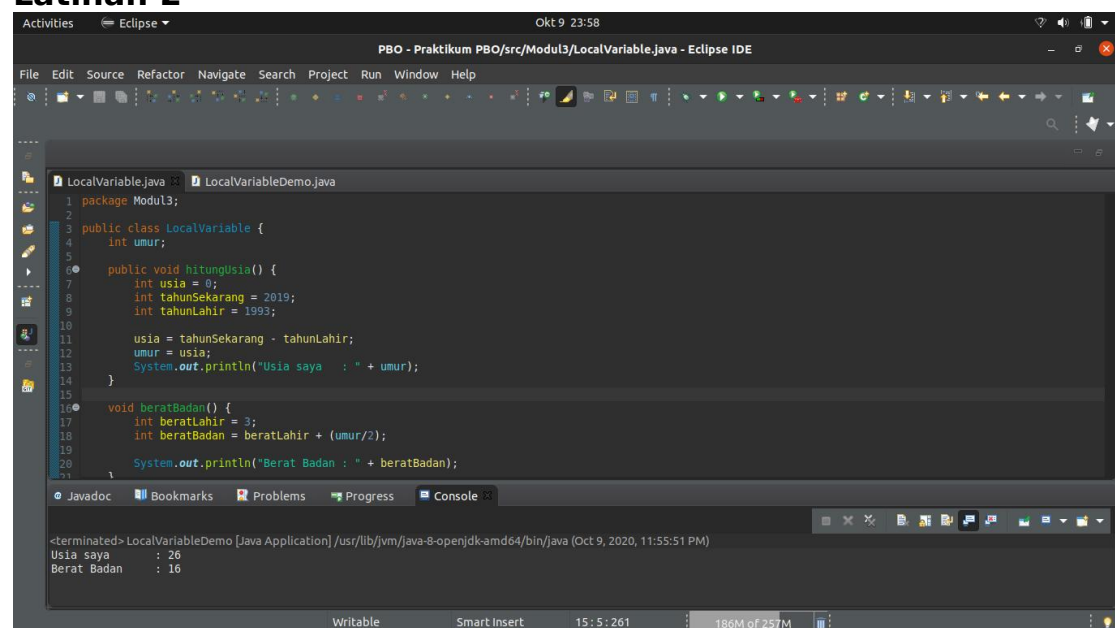
```
1 package Modul3;
2
3 public class LocalVariable {
4     public void hitungUsia() {
5         int usia = 0;
6         int tahunSekarang = 2019;
7         int tahunLahir = 1993;
8
9         usia = tahunSekarang - tahunLahir;
10        System.out.println("Usia saya : " + usia);
11    }
12
13    void beratBadan() {
14        int beratLahir = 3;
15        int beratBadan = beratLahir + (usia/2);
16    }
17 }
18
```

The console at the bottom shows 'No consoles to display at this time.'

```
void beratBadan() {
    int beratLahir = 3;
    int beratBadan = beratLahir + (usia/2);
}
```

usia tidak bisa dipanggil karena usia merupakan variable lokal (milik method hitungUsia()). Variabel lokal hanya dapat dideklarasikan dalam method, constructor, atau suatu blok. Variabel lokal tidak dapat digunakan di luar method, constructor, atau blok tempat dideklarasikan.

Latihan 2

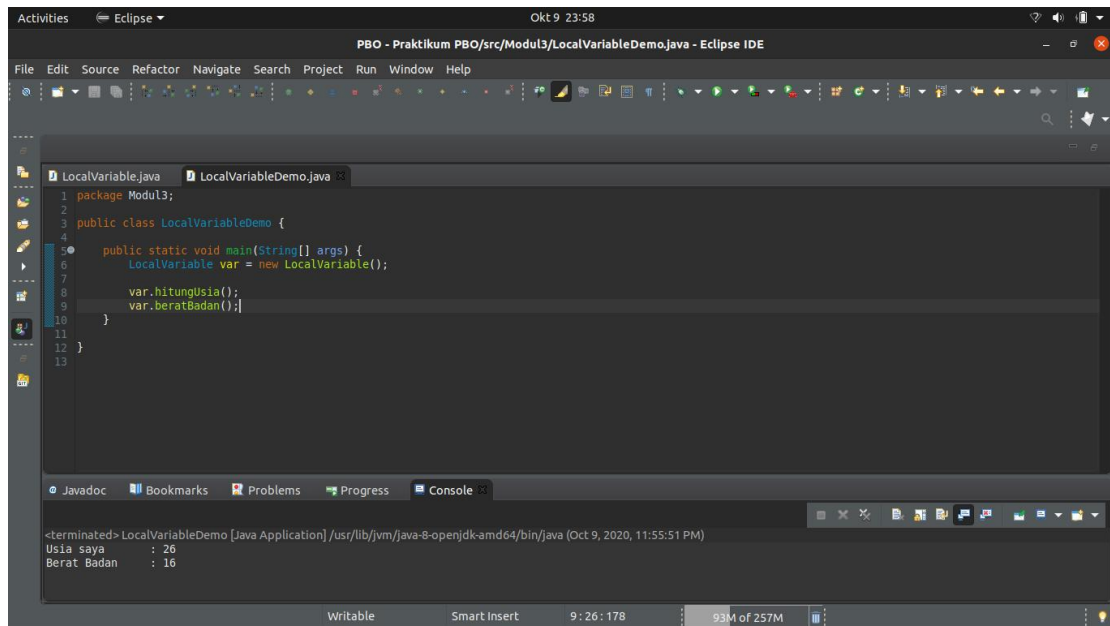


The screenshot shows the Eclipse IDE with a project named 'PBO - Praktikum PBO/src/Modul3/LocalVariableDemo.java'. The code in 'LocalVariableDemo.java' is as follows:

```
1 package Modul3;
2
3 public class LocalVariable {
4     int umur;
5
6     public void hitungUsia() {
7         int usia = 0;
8         int tahunSekarang = 2019;
9         int tahunLahir = 1993;
10
11        usia = tahunSekarang - tahunLahir;
12        umur = usia;
13        System.out.println("Usia saya : " + umur);
14    }
15
16    void beratBadan() {
17        int beratLahir = 3;
18        int beratBadan = beratLahir + (umur/2);
19        System.out.println("Berat Badan : " + beratBadan);
20    }
21 }
22
```

The console at the bottom shows the output of the program:

```
<terminated> LocalVariableDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 9, 2020, 11:55:51 PM)
Usia saya : 26
Berat Badan : 16
```



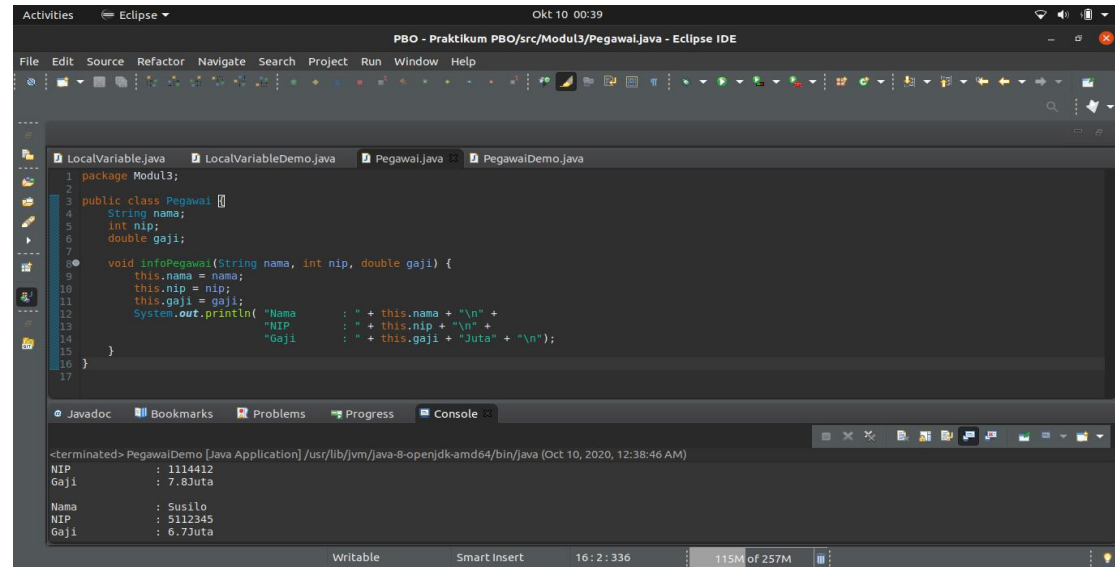
Pada latihan 2 ini, membuat satu variable global yaitu int umur. Dimana pada int umur menyimpan nilai dari variable lokal yaitu int usia . Maka disini method beratBadan() bisa berjalan

```
usia = tahunSekarang - tahunLahir;
umur = usia;
```

```
void beratBadan() {
    int beratLahir = 3;
    int beratBadan = beratLahir + (umur/2);

    System.out.println("Berat Badan : " + beratBadan);
}
```

Latihan 3



Activities Eclipse Okt 10 00:39

PBO - Praktikum PBO/src/Modul3/Pegawai.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java

```
1 package Modul3;
2
3 public class Pegawai {
4     String nama;
5     int nip;
6     double gaji;
7
8     void infoPegawai(String nama, int nip, double gaji) {
9         this.nama = nama;
10        this.nip = nip;
11        this.gaji = gaji;
12        System.out.println( "Nama      : " + this.nama + "\n" +
13                           "NIP       : " + this.nip + "\n" +
14                           "Gaji      : " + this.gaji + "Juta" + "\n");
15    }
16 }
17
```

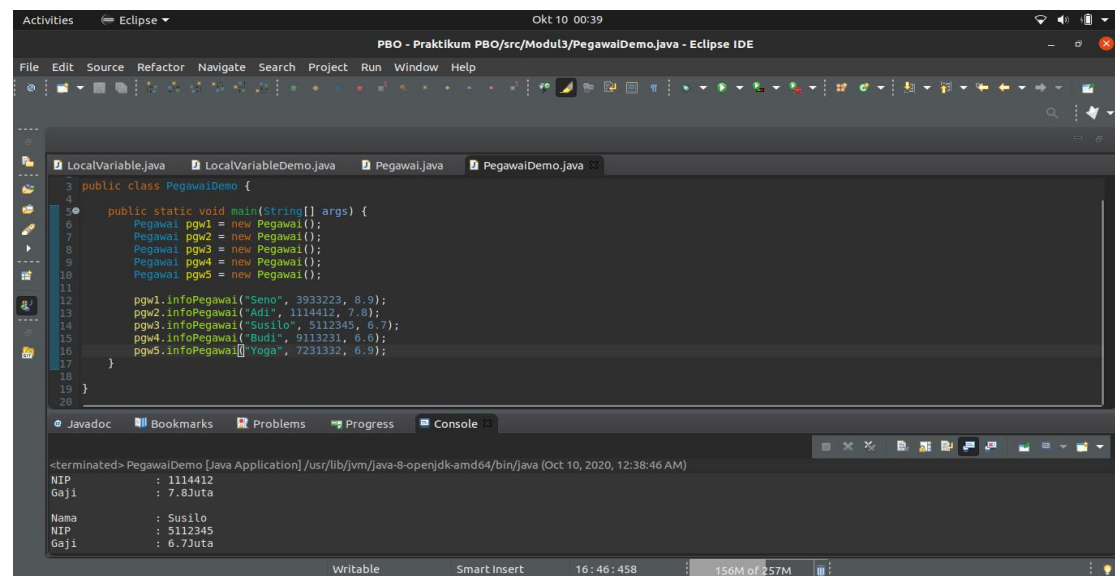
Javadoc Bookmarks Problems Progress Console

<terminated> PegawaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 12:38:46 AM)

```
NIP      : 1114412
Gaji     : 7.8Juta

Nama      : Susilo
NIP       : 5112345
Gaji      : 6.7Juta
```

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Activities Eclipse Okt 10 00:39

PBO - Praktikum PBO/src/Modul3/PegawaiDemo.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java

```
3 public class PegawaiDemo {
4
5     public static void main(String[] args) {
6         Pegawai pgw1 = new Pegawai();
7         Pegawai pgw2 = new Pegawai();
8         Pegawai pgw3 = new Pegawai();
9         Pegawai pgw4 = new Pegawai();
10        Pegawai pgw5 = new Pegawai();
11
12        pgw1.infoPegawai("Seno", 3933223, 8.9);
13        pgw2.infoPegawai("Adi", 1114412, 7.8);
14        pgw3.infoPegawai("Susilo", 5112345, 6.7);
15        pgw4.infoPegawai("Budi", 9113231, 6.6);
16        pgw5.infoPegawai("Yoga", 7231332, 6.9);
17    }
18 }
19
20
```

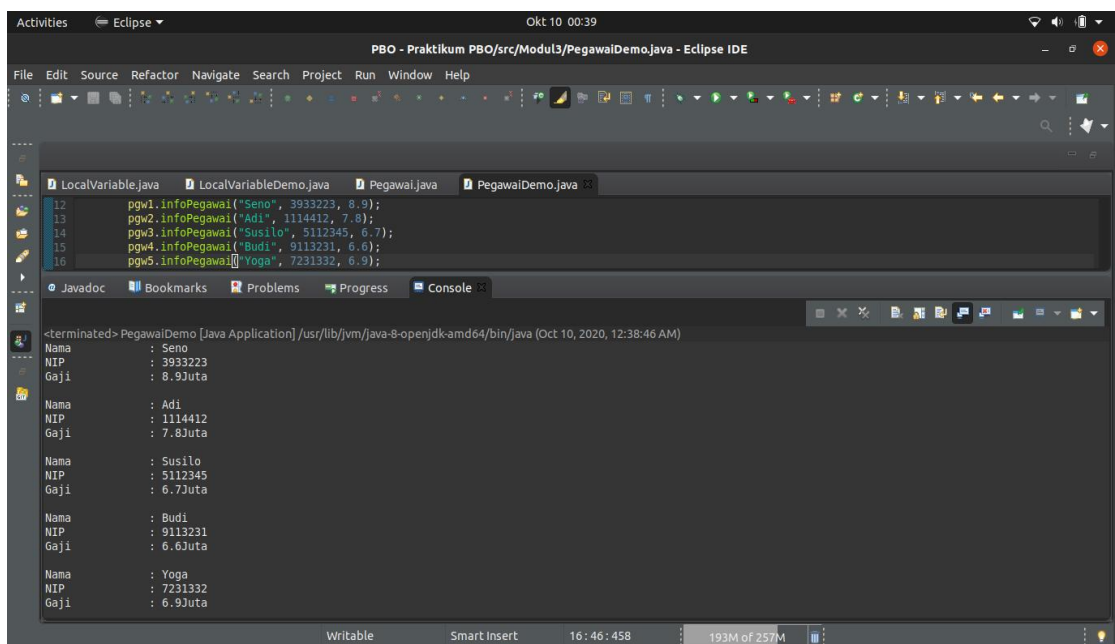
Javadoc Bookmarks Problems Progress Console

<terminated> PegawaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 12:38:46 AM)

```
NIP      : 1114412
Gaji     : 7.8Juta

Nama      : Susilo
NIP       : 5112345
Gaji      : 6.7Juta
```

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Activities Eclipse Okt 10 00:39

PBO - Praktikum PBO/src/Modul3/PegawaiDemo.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java

```
12 pgw1.infoPegawai("Seno", 3933223, 8.9);
13 pgw2.infoPegawai("Adi", 1114412, 7.8);
14 pgw3.infoPegawai("Susilo", 5112345, 6.7);
15 pgw4.infoPegawai("Budi", 9113231, 6.6);
16 pgw5.infoPegawai("Yoga", 7231332, 6.9);
```

Javadoc Bookmarks Problems Progress Console

<terminated> PegawaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 12:38:46 AM)

```
Nama      : Seno
NIP       : 3933223
Gaji      : 8.9Juta

Nama      : Adi
NIP       : 1114412
Gaji      : 7.8Juta

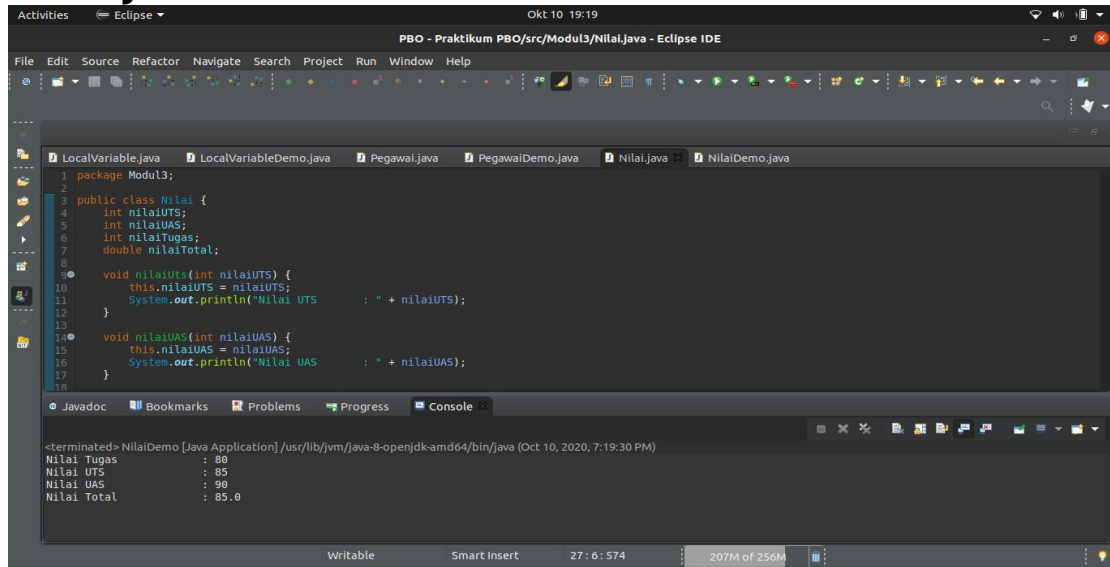
Nama      : Susilo
NIP       : 5112345
Gaji      : 6.7Juta

Nama      : Budi
NIP       : 9113231
Gaji      : 6.6Juta

Nama      : Yoga
NIP       : 7231332
Gaji      : 6.9Juta
```

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PEKERJAAN RUMAH



Activities Eclipse Okt 10 19:19

PBO - Praktikum PBO/src/Modul3/Nilai.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java Nilai.java NilaiDemo.java

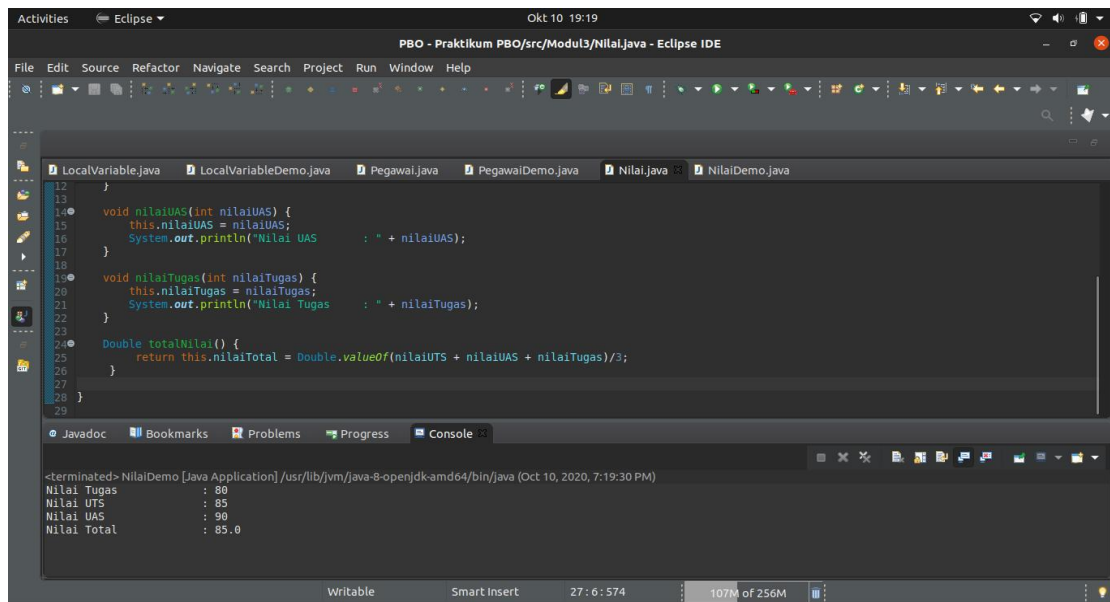
```
1 package Modul3;
2
3 public class Nilai {
4     int nilaiUTS;
5     int nilaiUAS;
6     int nilaiTugas;
7     double nilaiTotal;
8
9     void nilaiUTS(int nilaiUTS) {
10         this.nilaiUTS = nilaiUTS;
11         System.out.println("Nilai UTS : " + nilaiUTS);
12     }
13
14     void nilaiUAS(int nilaiUAS) {
15         this.nilaiUAS = nilaiUAS;
16         System.out.println("Nilai UAS : " + nilaiUAS);
17     }
18 }
```

Javadoc Bookmarks Problems Progress Console

<terminated> NilaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 7:19:30 PM)

```
Nilai Tugas : 80
Nilai UTS : 85
Nilai UAS : 90
Nilai Total : 85.0
```

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Activities Eclipse Okt 10 19:19

PBO - Praktikum PBO/src/Modul3/Nilai.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java Nilai.java NilaiDemo.java

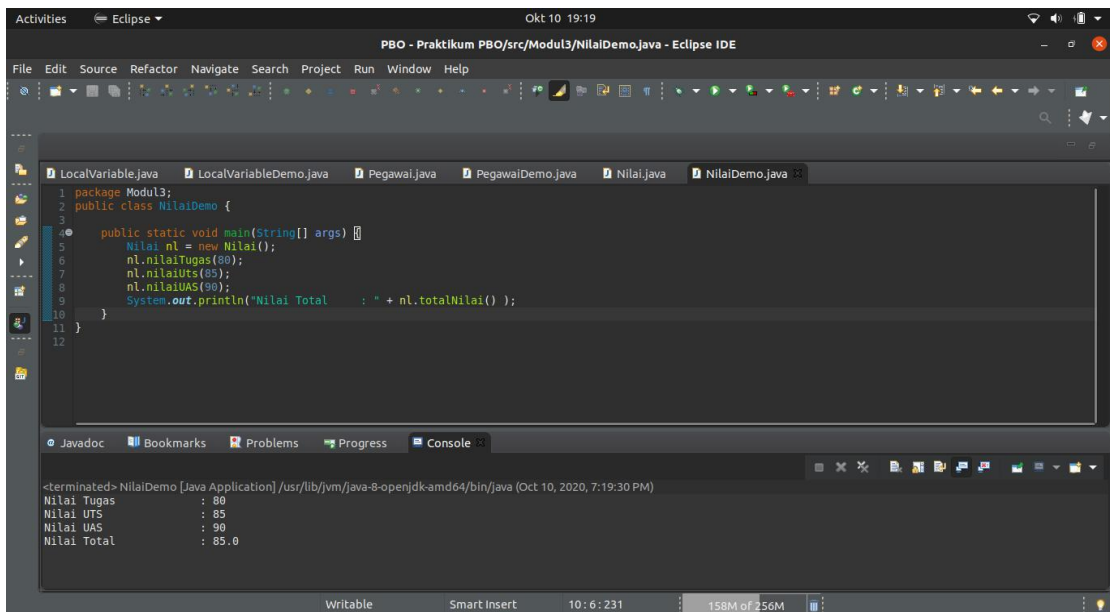
```
12 }
13
14 void nilaiUAS(int nilaiUAS) {
15     this.nilaiUAS = nilaiUAS;
16     System.out.println("Nilai UAS : " + nilaiUAS);
17 }
18
19 void nilaiTugas(int nilaiTugas) {
20     this.nilaiTugas = nilaiTugas;
21     System.out.println("Nilai Tugas : " + nilaiTugas);
22 }
23
24 Double totalNilai() {
25     return this.nilaiTotal = Double.valueOf((nilaiUTS + nilaiUAS + nilaiTugas)/3);
26 }
27
28 }
29 }
```

Javadoc Bookmarks Problems Progress Console

<terminated> NilaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 7:19:30 PM)

```
Nilai Tugas : 80
Nilai UTS : 85
Nilai UAS : 90
Nilai Total : 85.0
```

Writable Smart Insert 27:6:574 107M of 256M



Activities Eclipse Okt 10 19:19

PBO - Praktikum PBO/src/Modul3/NilaiDemo.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

LocalVariable.java LocalVariableDemo.java Pegawai.java PegawaiDemo.java Nilai.java NilaiDemo.java

```
1 package Modul3;
2 public class NilaiDemo {
3
4     public static void main(String[] args) {
5         Nilai nl = new Nilai();
6         nl.nilaiTugas(80);
7         nl.nilaiUTS(85);
8         nl.nilaiUAS(90);
9         System.out.println("Nilai Total : " + nl.totalNilai());
10    }
11 }
12 }
```

Javadoc Bookmarks Problems Progress Console

<terminated> NilaiDemo [Java Application] /usr/lib/jvm/java-8-openjdk-amd64/bin/java (Oct 10, 2020, 7:19:30 PM)

```
Nilai Tugas : 80
Nilai UTS : 85
Nilai UAS : 90
Nilai Total : 85.0
```

Writable Smart Insert 10:6:231 158M of 256M