

# **TUGAS PBO**

Tugas Nested Class



Oleh:

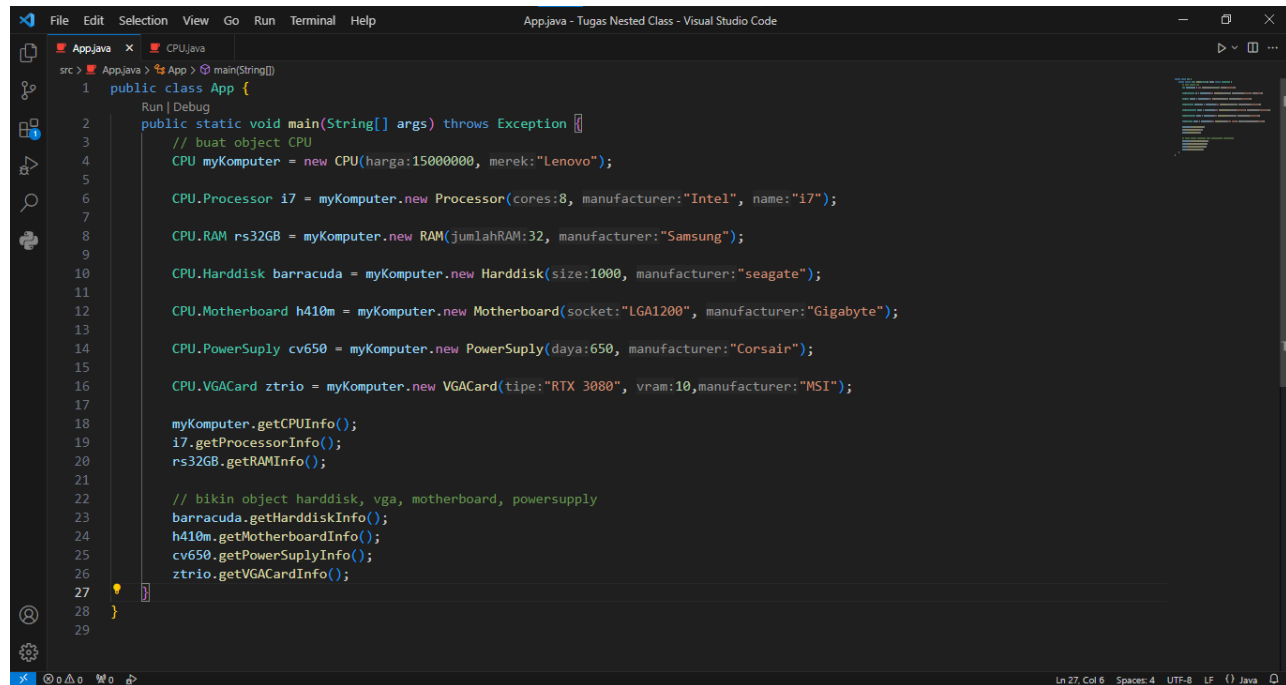
**MUHAMMAD HAKIM**

Dosen:

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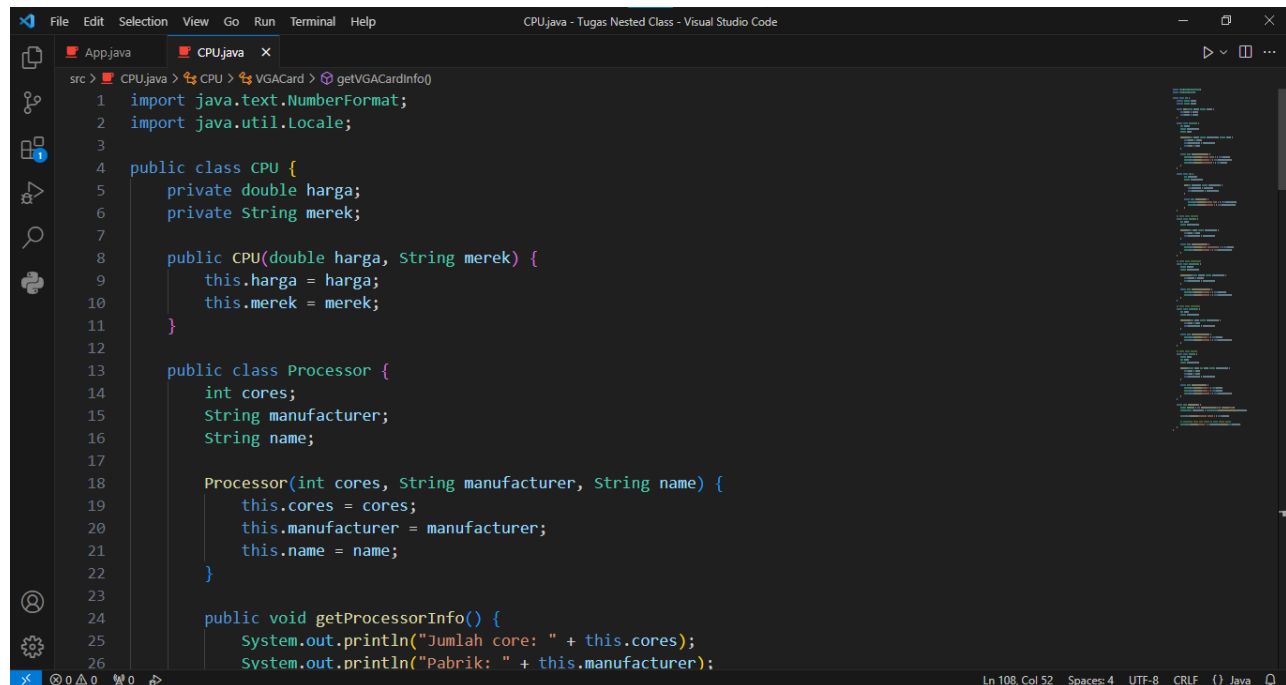
**S1-Teknik Informatika  
Fakultas Teknik Universitas Pancasila  
2023/2024**

## SOURCE CODE Class App



```
App.java - Tugas Nested Class - Visual Studio Code
src > App.java > App > main(String[])
1 public class App {
2     public static void main(String[] args) throws Exception {
3         // buat object CPU
4         CPU myKomputer = new CPU(harga:15000000, merek:"Lenovo");
5
6         CPU.Processor i7 = myKomputer.new Processor(cores:8, manufacturer:"Intel", name:"i7");
7
8         CPU.RAM rs32GB = myKomputer.new RAM(jumlahRAM:32, manufacturer:"Samsung");
9
10        CPU.Harddisk barracuda = myKomputer.new Harddisk(size:1000, manufacturer:"seagate");
11
12        CPU.Motherboard h410m = myKomputer.new Motherboard(socket:"LGA1200", manufacturer:"Gigabyte");
13
14        CPU.PowerSupply cv650 = myKomputer.new PowerSupply(daya:650, manufacturer:"Corsair");
15
16        CPU.VGACard ztrio = myKomputer.new VGACard(tipe:"RTX 3080", vram:10, manufacturer:"MSI");
17
18        myKomputer.getCPUInfo();
19        i7.getProcessorInfo();
20        rs32GB.getRAMInfo();
21
22        // bikin object harddisk, vga, motherboard, powersupply
23        barracuda.getHarddiskInfo();
24        h410m.getMotherboardInfo();
25        cv650.getPowerSupplyInfo();
26        ztrio.getVGACardInfo();
27    }
28 }
29
```

## SOURCE CODE Class CPU



```
CPU.java - Tugas Nested Class - Visual Studio Code
src > CPU.java > CPU > VGACard > getVGACardInfo()
1 import java.text.NumberFormat;
2 import java.util.Locale;
3
4 public class CPU {
5     private double harga;
6     private String merek;
7
8     public CPU(double harga, String merek) {
9         this.harga = harga;
10        this.merek = merek;
11    }
12
13    public class Processor {
14        int cores;
15        String manufacturer;
16        String name;
17
18        Processor(int cores, String manufacturer, String name) {
19            this.cores = cores;
20            this.manufacturer = manufacturer;
21            this.name = name;
22        }
23
24        public void getProcessorInfo() {
25            System.out.println("Jumlah core: " + this.cores);
26            System.out.println("Pabrik: " + this.manufacturer);
27        }
28    }
29 }
```

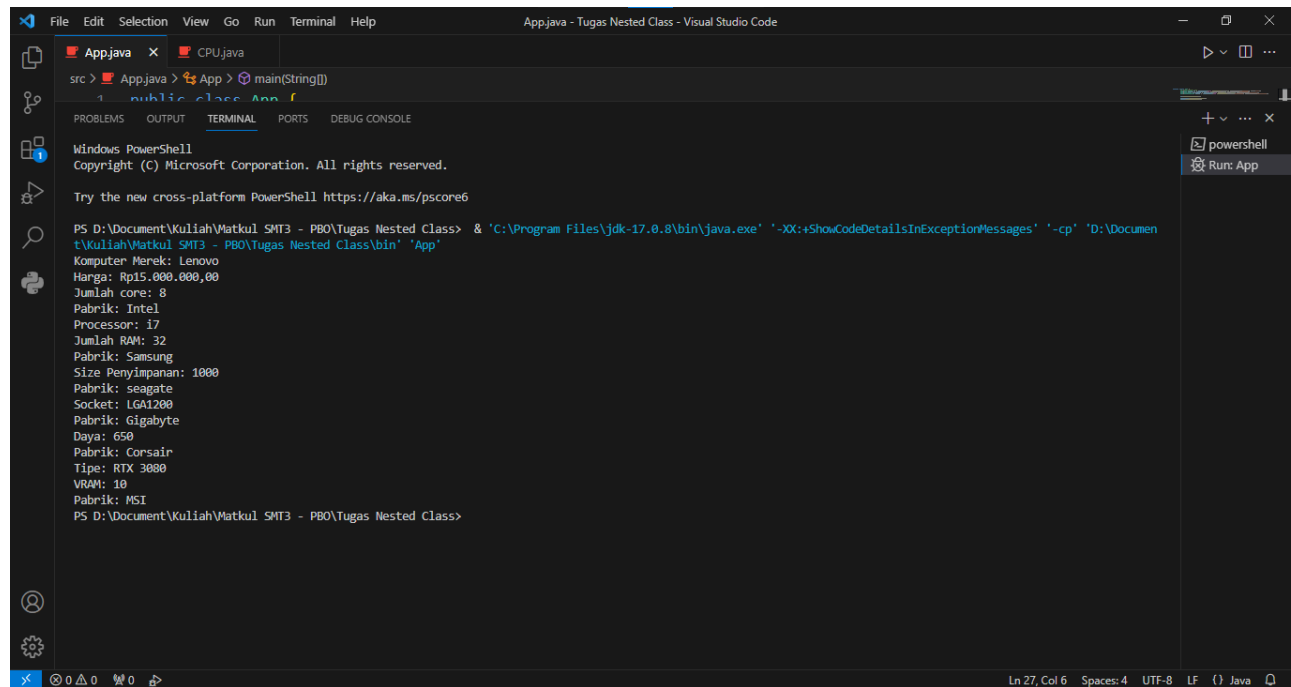
```
File Edit Selection View Go Run Terminal Help CPU.java - Tugas Nested Class - Visual Studio Code
AppJava CPU.java X
src > CPU.java > CPU > VGACard > getVGACardInfo()
24 public void getProcessorInfo() {
25     System.out.println("Jumlah core: " + this.cores);
26     System.out.println("Pabrik: " + this.manufacturer);
27     System.out.println("Processor: " + this.name);
28 }
29 }
30
31 public class RAM {
32     int jumlahRAM;
33     String manufacturer;
34
35     RAM(int jumlahRAM, String manufacturer) {
36         this.jumlahRAM = jumlahRAM;
37         this.manufacturer = manufacturer;
38     }
39
40     public void getRAMInfo() {
41         System.out.println("Jumlah RAM: " + this.jumlahRAM);
42         System.out.println("Pabrik: " + this.manufacturer);
43     }
44 }
45
46 // inner class Harddisk
47 public class Harddisk {
48     int size;
49     String manufacturer;
```

```
File Edit Selection View Go Run Terminal Help CPU.java - Tugas Nested Class - Visual Studio Code
AppJava CPU.java X
src > CPU.java > CPU > VGACard > getVGACardInfo()
51     Harddisk(int size, String manufacturer) {
52         this.size = size;
53         this.manufacturer = manufacturer;
54     }
55
56     public void getHarddiskInfo() {
57         System.out.println("Size Penyimpanan: " + this.size);
58         System.out.println("Pabrik: " + this.manufacturer);
59     }
60 }
61
62 // inner class Motherboard
63 public class Motherboard {
64     String socket;
65     String manufacturer;
66
67     Motherboard(String socket, String manufacturer) {
68         this.socket = socket;
69         this.manufacturer = manufacturer;
70     }
71
72     public void getMotherboardInfo() {
73         System.out.println("Socket: " + this.socket);
74         System.out.println("Pabrik: " + this.manufacturer);
75     }
76 }
```

```
File Edit Selection View Go Run Terminal Help CPU.java - Tugas Nested Class - Visual Studio Code
AppJava CPU.java X
src > CPU.java > CPU > VGACard > getVGACardInfo()
78 // inner class PowerSupply
79 public class PowerSupply {
80     int daya;
81     String manufacturer;
82
83     PowerSupply(int daya, String manufacturer) {
84         this.daya = daya;
85         this.manufacturer = manufacturer;
86     }
87
88     public void getPowerSupplyInfo() {
89         System.out.println("Daya: " + this.daya);
90         System.out.println("Pabrik: " + this.manufacturer);
91     }
92 }
93
94 // inner class VGACard
95 public class VGACard {
96     String tipe;
97     int vram;
98     String manufacturer;
99
100     VGACard(String tipe, int vram, String manufacturer) {
101         this.tipe = tipe;
102         this.vram = vram;
103     }
104 }
105
106 public void getVGACardInfo() {
107     System.out.println("Tipe: " + this.tipe);
108     System.out.println("VRAM: " + this.vram);
109     System.out.println("Pabrik: " + this.manufacturer);
110 }
111
112 public void getCPUInfo() {
113     Locale localeID = new Locale(language:"in", country:"ID");
114     NumberFormat formatRupiah = NumberFormat.getCurrencyInstance(localeID);
115
116     System.out.println("Komputer Merek: " + this.merek);
117
118     // menuliskan harga yang double ke dalam format rupiah
119     System.out.println("Harga: " + formatRupiah.format(this.harga));
120 }
121 }
122 }
```

```
File Edit Selection View Go Run Terminal Help CPU.java - Tugas Nested Class - Visual Studio Code
AppJava CPU.java X
src > CPU.java > CPU > VGACard > getVGACardInfo()
103         this.manufacturer = manufacturer;
104     }
105
106     public void getVGACardInfo() {
107         System.out.println("Tipe: " + this.tipe);
108         System.out.println("VRAM: " + this.vram);
109         System.out.println("Pabrik: " + this.manufacturer);
110     }
111
112     public void getCPUInfo() {
113         Locale localeID = new Locale(language:"in", country:"ID");
114         NumberFormat formatRupiah = NumberFormat.getCurrencyInstance(localeID);
115
116         System.out.println("Komputer Merek: " + this.merek);
117
118         // menuliskan harga yang double ke dalam format rupiah
119         System.out.println("Harga: " + formatRupiah.format(this.harga));
120     }
121 }
122 }
```

# HASIL



The screenshot shows the Visual Studio Code interface with a Java file named `App.java` open. The code defines a `main` method that prints system information. The terminal window shows the command to run the application and its output.

```
src > App.java > App > main(String[])  
1 public class App {  
    public static void main(String[] args) {  
        System.out.println("Computer Merek: Lenovo  
        System.out.println("Harga: Rp15.000.000,00  
        System.out.println("Jumlah core: 8  
        System.out.println("Pabrik: Intel  
        System.out.println("Processor: i7  
        System.out.println("Jumlah RAM: 32  
        System.out.println("Pabrik: Samsung  
        System.out.println("Size Penyimpanan: 1000  
        System.out.println("Pabrik: seagate  
        System.out.println("Socket: LGA1200  
        System.out.println("Pabrik: Gigabyte  
        System.out.println("Daya: 650  
        System.out.println("Pabrik: Corsair  
        System.out.println("Tipe: RTX 3080  
        System.out.println("VRAM: 10  
        System.out.println("Pabrik: MSI  
    }  
}
```

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS D:\Document\Kuliah\Matkul SMT3 - PBO\Tugas Nested Class> & 'C:\Program Files\jdk-17.0.8\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'D:\Document\Kuliah\Matkul SMT3 - PBO\Tugas Nested Class\bin' 'App'  
Computer Merek: Lenovo  
Harga: Rp15.000.000,00  
Jumlah core: 8  
Pabrik: Intel  
Processor: i7  
Jumlah RAM: 32  
Pabrik: Samsung  
Size Penyimpanan: 1000  
Pabrik: seagate  
Socket: LGA1200  
Pabrik: Gigabyte  
Daya: 650  
Pabrik: Corsair  
Tipe: RTX 3080  
VRAM: 10  
Pabrik: MSI  
PS D:\Document\Kuliah\Matkul SMT3 - PBO\Tugas Nested Class>

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