TUGAS PBO

Tugas Nested Class

Oleh:
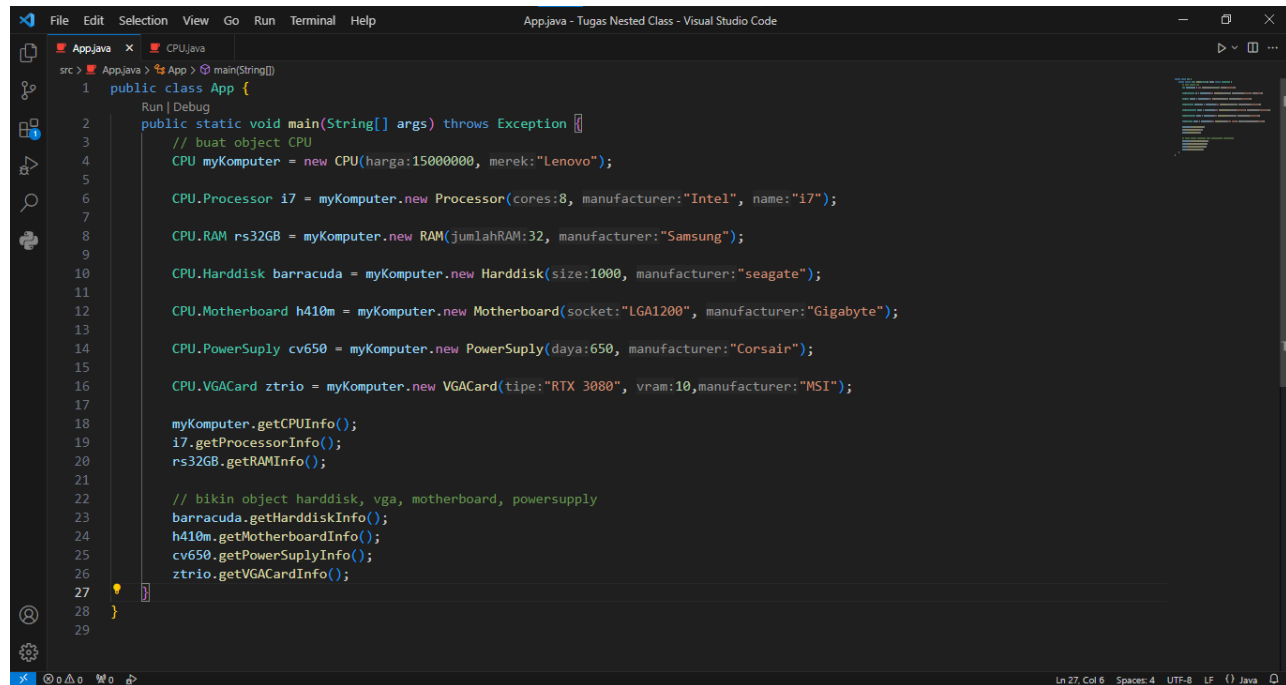MUHAMMAD HAKIM

Dosen:

ADI WAHYU PRIBADI,S.Si.,M.Kom

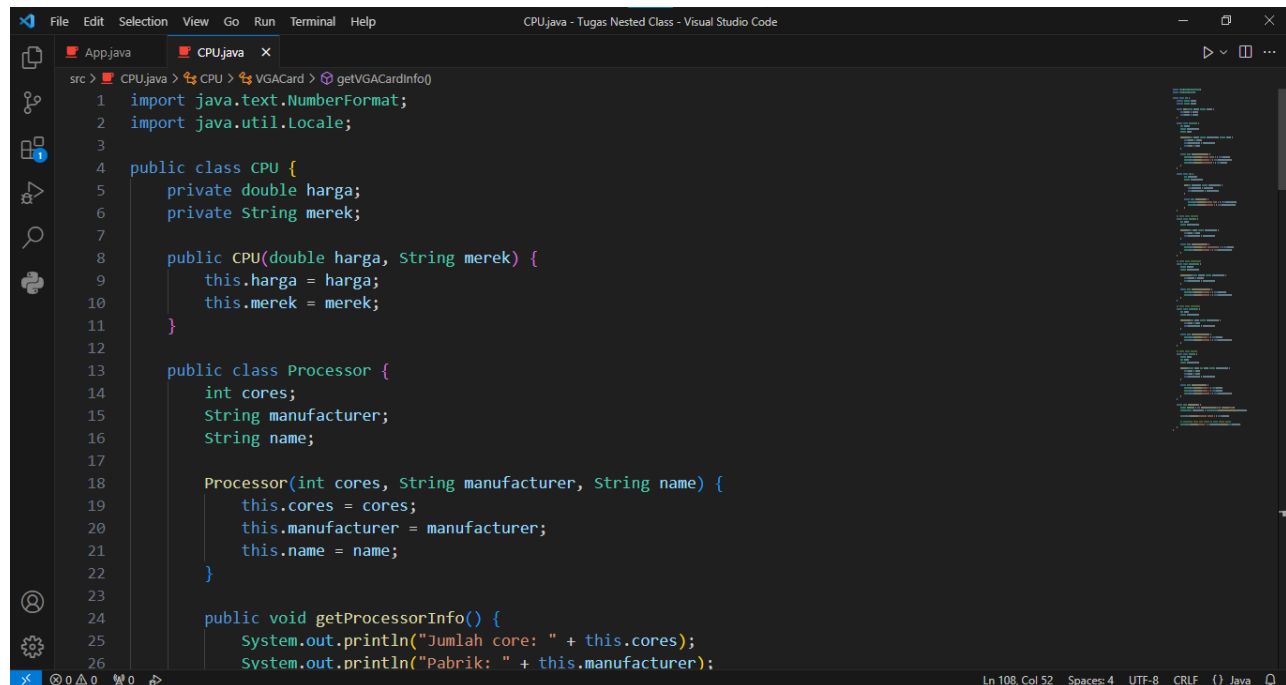**S1-Teknik Informatika**
Fakultas Teknik Universitas Pancasila
2023/2024

SOURCE CODE Class App

```java
public class App {
    public static void main(String[] args) throws Exception {
        // buat object CPU
        CPU myKomputer = new CPU(harga:15000000, merek:"Lenovo");

        CPU.Processor i7 = myKomputer.new Processor(cores:8, manufacturer:"Intel", name:"i7");

        CPU.RAM rs32GB = myKomputer.new RAM(jumlahRAM:32, manufacturer:"Samsung");

        CPU.Harddisk barracuda = myKomputer.new Harddisk(size:1000, manufacturer:"seagate");

        CPU.Motherboard h410m = myKomputer.new Motherboard(socket:"LGA1200", manufacturer:"Gigabyte");

        CPU.PowerSuply cv650 = myKomputer.new PowerSuply(daya:650, manufacturer:"Corsair");

        CPU.VGACard ztrio = myKomputer.new VGACard(tipe:"RTX 3080", vram:10,manufacturer:"MSI");

        myKomputer.getCPUInfo();
        i7.getProcessorInfo();
        rs32GB.getRAMInfo();

        // bikin object harddisk, vga, motherboard, powersupply
        barracuda.getHarddiskInfo();
        h410m.getMotherboardInfo();
        cv650.getPowerSuplyInfo();
        ztrio.getVGACardInfo();
    }
}
```

SOURCE CODE Class CPU

```java
import java.text.NumberFormat;
import java.util.Locale;

public class CPU {
    private double harga;
    private String merek;

    public CPU(double harga, String merek) {
        this.harga = harga;
        this.merek = merek;
    }

    public class Processor {
        int cores;
        String manufacturer;
        String name;

        Processor(int cores, String manufacturer, String name) {
            this.cores = cores;
            this.manufacturer = manufacturer;
            this.name = name;
        }

        public void getProcessorInfo() {
            System.out.println("Jumlah core: " + this.cores);
            System.out.println("Pabrik: " + this.manufacturer);
```
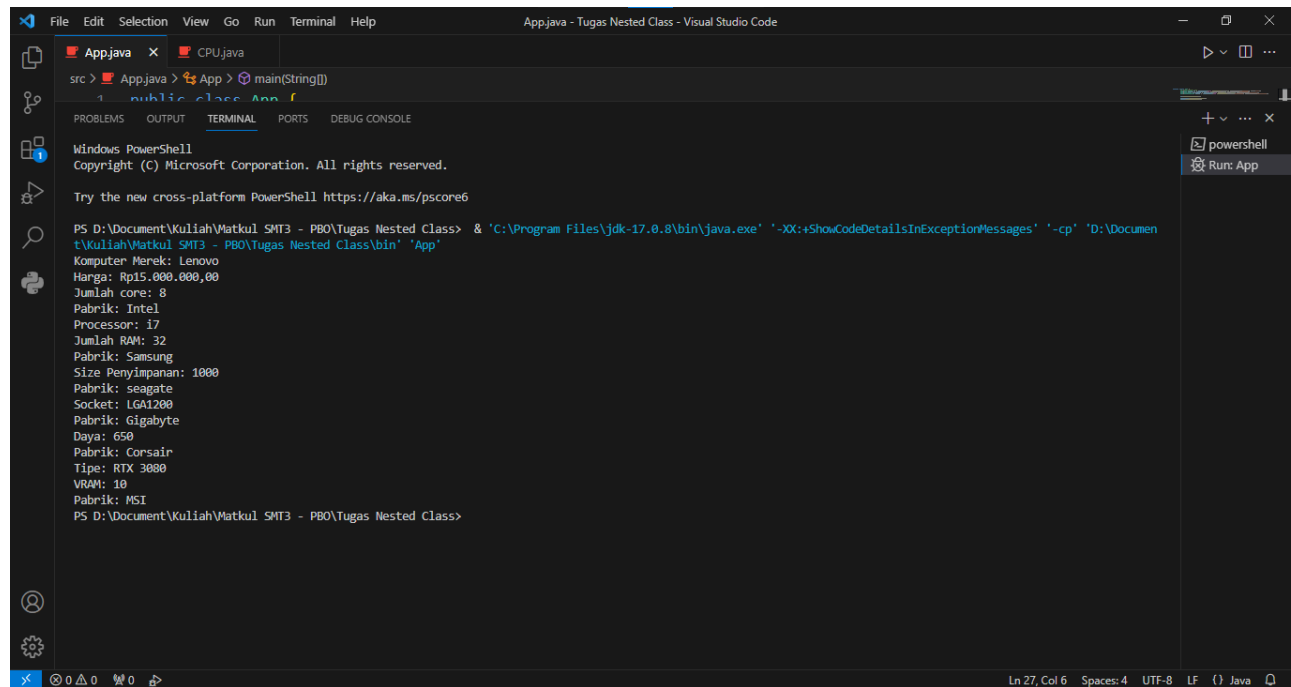
```java
        public void getProcessorInfo() {
            System.out.println("Jumlah core: " + this.cores);
            System.out.println("Pabrik: " + this.manufacturer);
            System.out.println("Processor: " + this.name);
        }
    }

    public class RAM {
        int jumlahRAM;
        String manufacturer;

        RAM(int jumlahRAM, String manufacturer) {
            this.jumlahRAM = jumlahRAM;
            this.manufacturer = manufacturer;
        }

        public void getRAMInfo() {
            System.out.println("Jumlah RAM: " + this.jumlahRAM);
            System.out.println("Pabrik: " + this.manufacturer);
        }
    }

    // inner class Harddisk
    public class Harddisk {
        int size;
        String manufacturer;
```

```java
        Harddisk(int size, String manufacturer) {
            this.size = size;
            this.manufacturer = manufacturer;
        }

        public void getHarddiskInfo() {
            System.out.println("Size Penyimpanan: " + this.size);
            System.out.println("Pabrik: " + this.manufacturer);
        }
    }

    // inner class Motherboard
    public class Motherboard {
        String socket;
        String manufacturer;

        Motherboard(String socket, String manufacturer) {
            this.socket = socket;
            this.manufacturer = manufacturer;
        }

        public void getMotherboardInfo() {
            System.out.println("Socket: " + this.socket);
            System.out.println("Pabrik: " + this.manufacturer);
        }
    }
```

```java
    // inner class PowerSuply
    public class PowerSuply {
        int daya;
        String manufacturer;

        PowerSuply(int daya, String manufacturer) {
            this.daya = daya;
            this.manufacturer = manufacturer;
        }

        public void getPowerSuplyInfo() {
            System.out.println("Daya: " + this.daya);
            System.out.println("Pabrik: " + this.manufacturer);
        }
    }

    // inner class VGACard
    public class VGACard {
        String tipe;
        int vram;
        String manufacturer;

        VGACard(String tipe, int vram, String manufacturer) {
            this.tipe = tipe;
            this.vram = vram;
```

```java
            this.manufacturer = manufacturer;
        }

        public void getVGACardInfo() {
            System.out.println("Tipe: " + this.tipe);
            System.out.println("VRAM: " + this.vram);
            System.out.println("Pabrik: " + this.manufacturer);
        }
    }

    public void getCPUInfo() {
        Locale localeID = new Locale(language:"in", country:"ID");
        NumberFormat formatRupiah = NumberFormat.getCurrencyInstance(localeID);

        System.out.println("Komputer Merek: " + this.merek);

        // menuliskan harga yang double ke dalam format rupiah
        System.out.println("Harga: " + formatRupiah.format(this.harga));
    }
}
```

HASIL


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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:\Documen
t\Kuliah\Matkul SMT3 - PBO\Tugas Nested Class\bin' 'App'
Komputer 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>
```