

**TUGAS TEORI**  
**PEMROGRAMAN BERORIENTASI OBJEK**



DI SUSUN OLEH :

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## Main.java

```
public class Main {
    public static void main(String[] args) {
        // buat object CPU
        CPU myKomputer = new CPU(15000000, "Lenovo");

        CPU.Processor i7 = myKomputer.new Processor(8, "Intel", "i7");

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

        CPU.Tugas TugasPBO = myKomputer.new Tugas("SSD", "ATX", "ATX",
"NVidia NV4");

        myKomputer.getCPUInfo();
        i7.getProcessorInfo();
        rs32GB.getInfoRAM();
        TugasPBO.getTugasInfo();

        // bikin object harddisk, vga, motherboard, powersupply
    }
}
```

## 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);
            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 getInfoRAM() {
        System.out.println("Jumlah RAM: " + this.jumlahRAM);
        System.out.println("Pabrik: " + this.manufacturer);
    }
}

public void getCPUInfo() {
    Locale localeID = new Locale("in", "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));
}

// inner class Harddisk
// inner class Motherboard
// inner class PowerSuply
// inner class VGACard

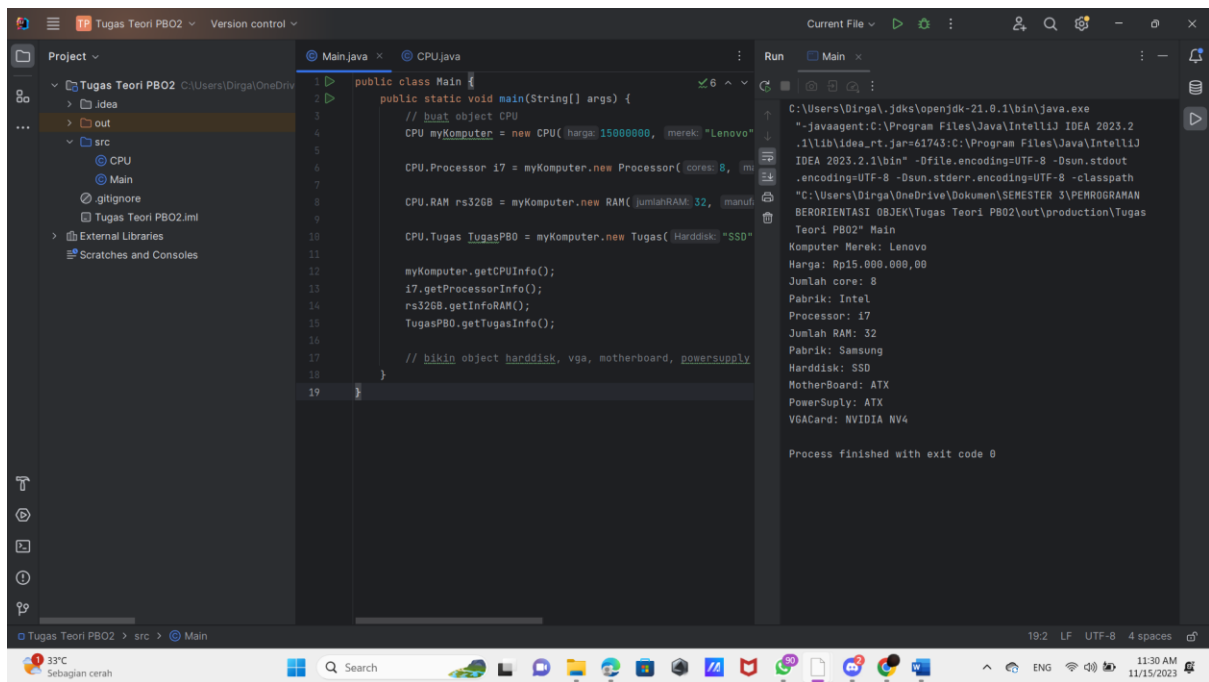
public class Tugas {
    String Harddisk;
    String Motherboard;
    String PowerSuply;
    String VGACard;

    Tugas(String Harddisk, String Motherboard, String PowerSuply,
String VGACard) {
        this.Harddisk = Harddisk;
        this.Motherboard = Motherboard;
        this.PowerSuply = PowerSuply;
        this.VGACard = VGACard;
    }

    public void getTugasInfo() {
        System.out.println("Harddisk: " + this.Harddisk);
        System.out.println("MotherBoard: " + this.Motherboard);
        System.out.println("PowerSuply: " + this.PowerSuply);
        System.out.println("VGACard: " + this.VGACard);
    }
}
}

```

## Hasil Running :



The screenshot displays the IntelliJ IDEA IDE interface. The left sidebar shows the project structure for 'Tugas Teori PBO2', including folders like 'idea', 'out', 'src', and files like 'CPU.java', 'Main.java', 'Tugas Teori PBO2.iml', 'gitignore', 'External Libraries', and 'Scratches and Consoles'. The main editor window shows the 'Main.java' file with the following code:

```
1 public class Main {
2     public static void main(String[] args) {
3         // buat object CPU
4         CPU myKomputer = new CPU( harga: 15000000, merek: "Lenovo"
5
6         CPU.Processor i7 = myKomputer.new Processor( cores: 8, m
7
8         CPU.RAM rs32GB = myKomputer.new RAM( jumlahRAM: 32, manuf
9
10        CPU.Tugas TugasPBO = myKomputer.new Tugas( Harddisk: "SSD"
11
12        myKomputer.getCPUInfo();
13        i7.getProcessorInfo();
14        rs32GB.getInfoRAM();
15        TugasPBO.getTugasInfo();
16
17        // bikin object harddisk, vga, motherboard, powersupply
18    }
19 }
```

The right sidebar shows the 'Run' window with the following output:

```
C:\Users\Dirga\jdk\openjdk-21.0.1\bin\java.exe
"-javaagent:C:\Program Files\Java\IntelliJ IDEA 2023.2
.1\lib\idea_rt.jar=61743:C:\Program Files\Java\IntelliJ
IDEA 2023.2.1\bin" -Dfile.encoding=UTF-8 -Dsun.stdout
.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath
"C:\Users\Dirga\OneDrive\Documents\SEMESTER 3\PEMROGRAMAN
BERORIENTASI OBJEK\Tugas Teori PBO2\out\production\Tugas
Teori PBO2" Main
Komputer Merek: Lenovo
Harga: Rp15.000.000,00
Jumlah core: 8
Pabrik: Intel
Processor: i7
Jumlah RAM: 32
Pabrik: Samsung
Harddisk: SSD
MotherBoard: ATX
PowerSupply: ATX
VGA Card: NVIDIA NV4

Process finished with exit code 0
```

The bottom status bar shows the temperature as 33°C, the search bar, and the system clock indicating 11:30 AM on 11/15/2023.