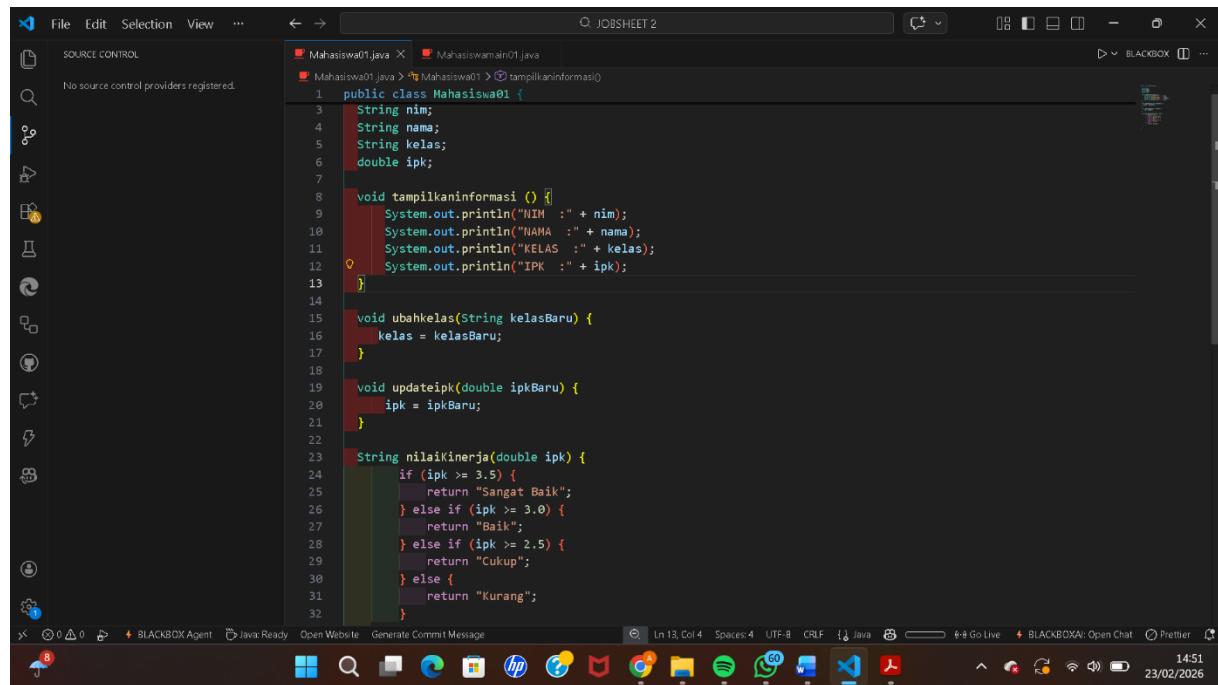


JOSHEET 2

PERCOBAAN !



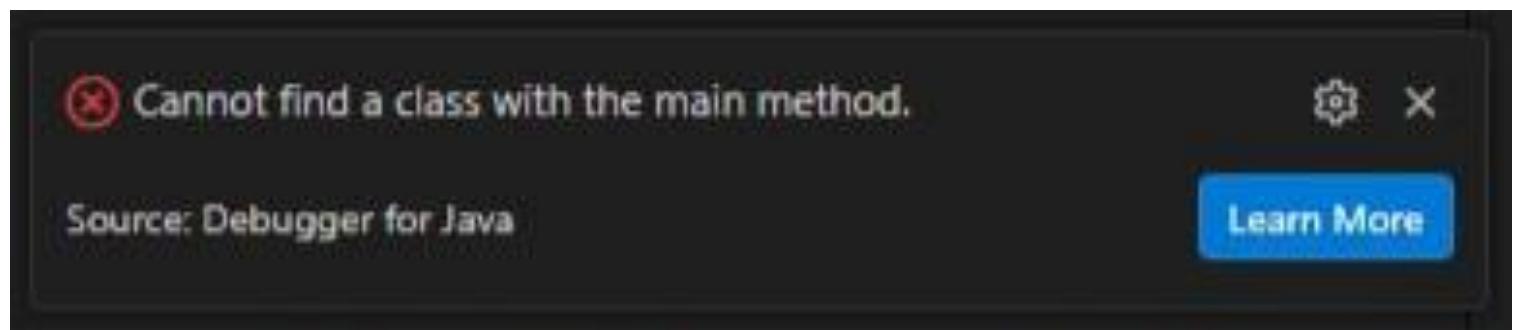
```
File Edit Selection View ... SOURCE CONTROL No source control providers registered. Mahasiswa01.java > Mahasiswa01 > tampilkaninformasi() public class Mahasiswa01 { String nim; String nama; String kelas; double ipk; void tampilkaninformasi () { System.out.println("NIM : " + nim); System.out.println("NAMA : " + nama); System.out.println("KELAS : " + kelas); System.out.println("IPK : " + ipk); } void ubahkelas(String kelasBaru) { kelas = kelasBaru; } void updateipk(double ipkBaru) { ipk = ipkBaru; } String nilaiKinerja(double ipk) { if (ipk >= 3.5) { return "Sangat Baik"; } else if (ipk >= 3.0) { return "Baik"; } else if (ipk >= 2.5) { return "Cukup"; } else { return "Kurang"; } } }
```

JAWABAN PERTANYAAN

1. Sebutkan dua karakteristik class atau object!

Atribut (data)

Method (perilaku / fungsi)



2. Ada berapa atribut pada class Mahasiswa? Sebutkan!

Ada 4 atribut, yaitu:

Nim,nama,kelas,ipk

3. Ada berapa method pada class Mahasiswa? Sebutkan!

Ada 4 method, yaitu:

- tampilanInformasi()
- ubahKelas()
- updateIpk()
- nilaiKinerja()

4. done

5. Jelaskan cara kerja method nilaiKinerja(): ?

Method ini memberitahu kinerja mahasiswa berdasarkan nilai IPK.

Dengan kriteria:

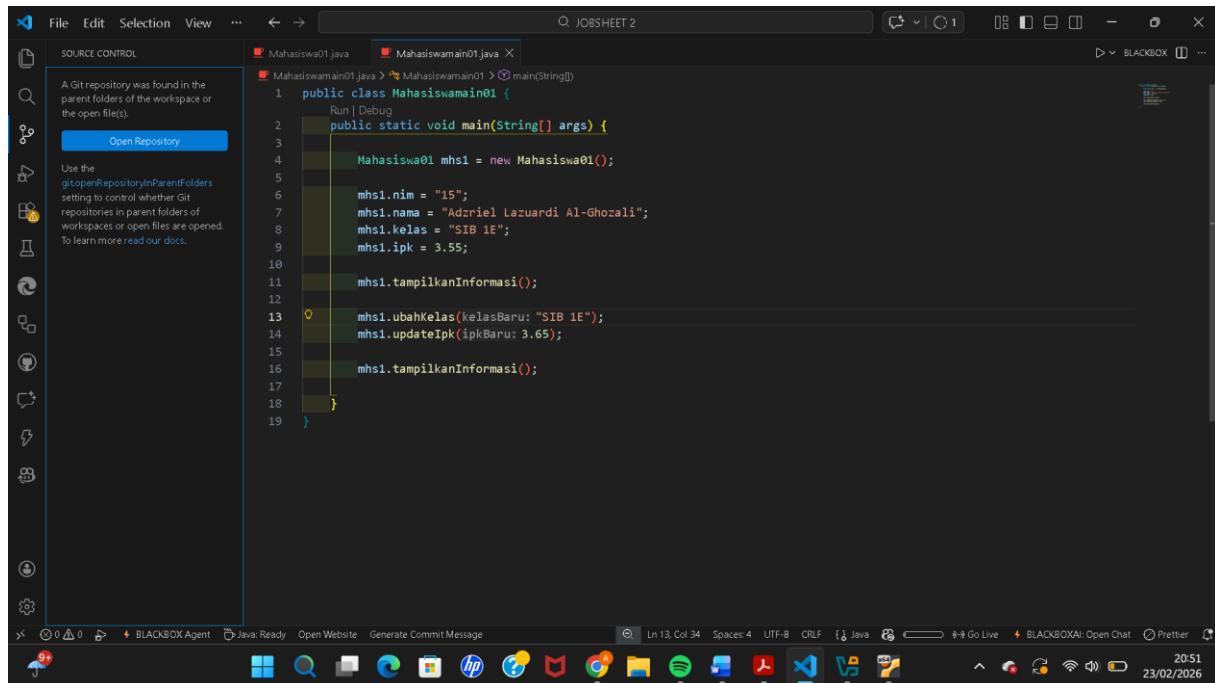
IPK \geq 3.5 → Sangat Baik

IPK \geq 3.0 → Baik

IPK \geq 2.5 → Cukup

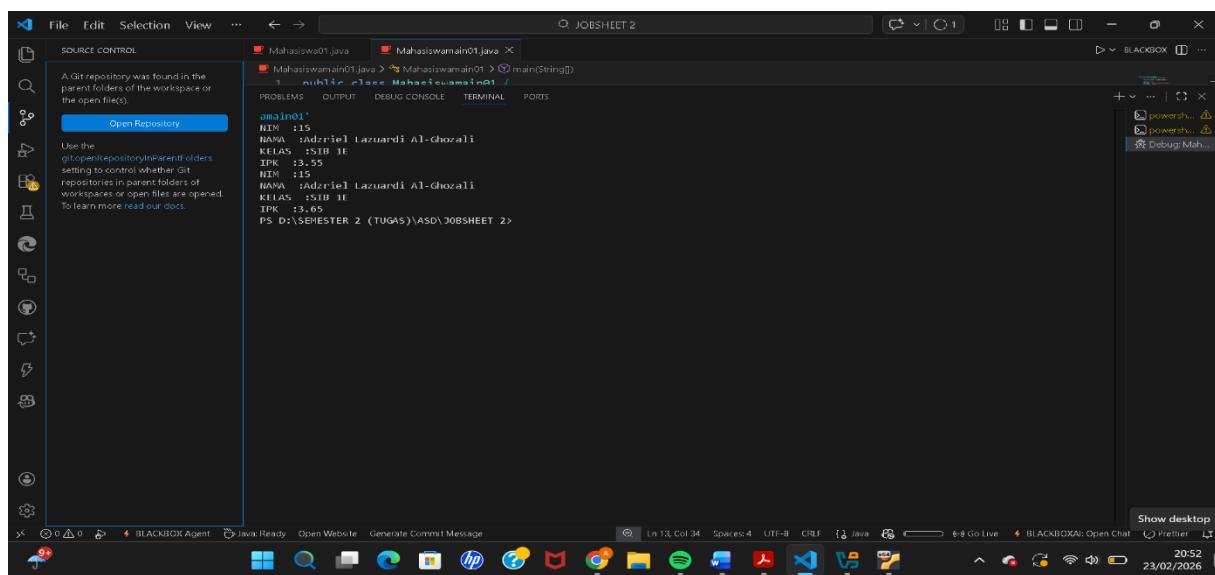
IPK < 2.5 → Kurang

PERCOBAAN 2



A screenshot of the Visual Studio Code (VS Code) interface. The title bar says "JOBSITE 2". The left sidebar shows a "SOURCE CONTROL" section with a message about a Git repository found in the workspace. The main editor area contains Java code for a class named "MahasiswaMain01". The code initializes a "Mahasiswa01" object named "mhs1" and prints its details. The status bar at the bottom shows "Java Ready", "2051", and "23/02/2026".

```
1 public class MahasiswaMain01 {
2     public static void main(String[] args) {
3         Mahasiswa01 mhs1 = new Mahasiswa01();
4
5         mhs1.nim = "15";
6         mhs1.nama = "Adzriel Lazuardi Al-Ghozali";
7         mhs1.kelas = "SIB 1E";
8         mhs1.ipk = 3.55;
9
10        mhs1.tampilkanInformasi();
11
12        mhs1.ubahKelas(kelasBaru: "SIB 1E");
13        mhs1.updateIpk(ipkBaru: 3.65);
14
15        mhs1.tampilkanInformasi();
16
17    }
18}
```



A screenshot of the Visual Studio Code (VS Code) interface, similar to the previous one but showing the terminal output. The title bar says "JOBSITE 2". The terminal window displays the output of the Java code execution, showing the student's name, NIM, KELAS, and IPK. The status bar at the bottom shows "Java Ready", "2052", and "23/02/2026".

```
nim: 15
NAMA: Adzriel Lazuardi Al-Ghozali
KELAS: SIB 1E
IPK: 3.55
nim: 15
NAMA: Adzriel Lazuardi Al-Ghozali
KELAS: SIB 1E
IPK: 3.65
PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2>
```

JAWABAN PERTANYAAN

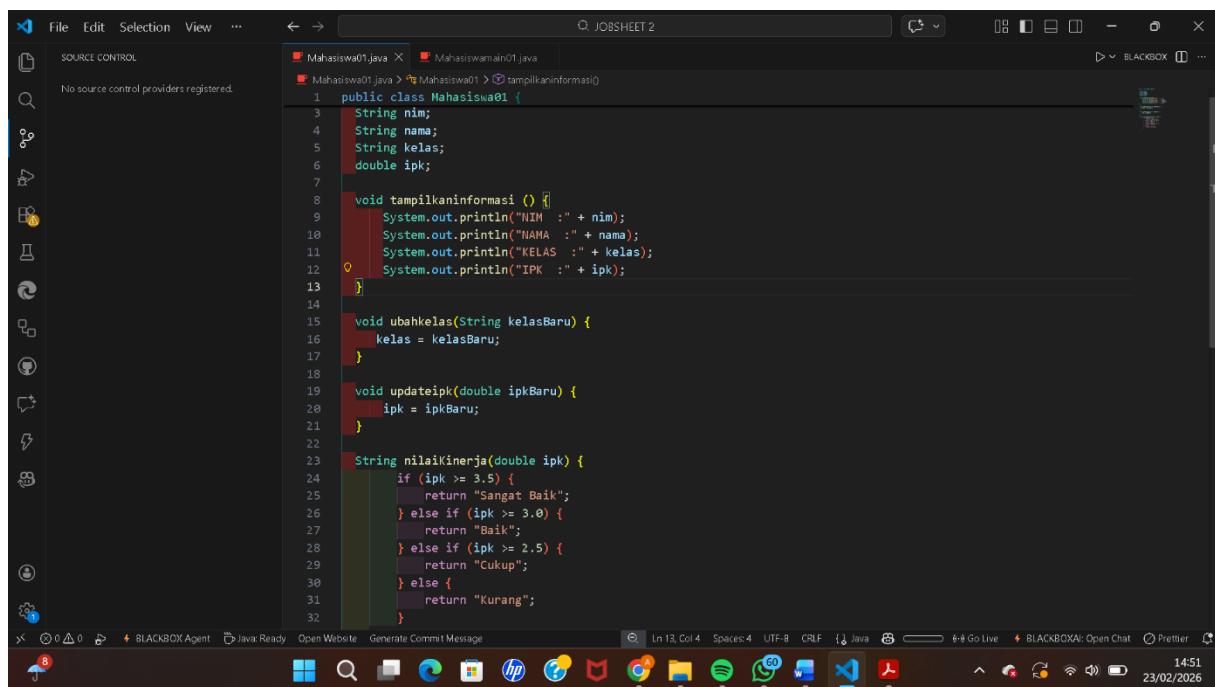
1. Pada class MahasiswaMain, tunjukkan baris kode instansiasi! Apa nama object yang dihasilkan?

Baris kode instansiasi:

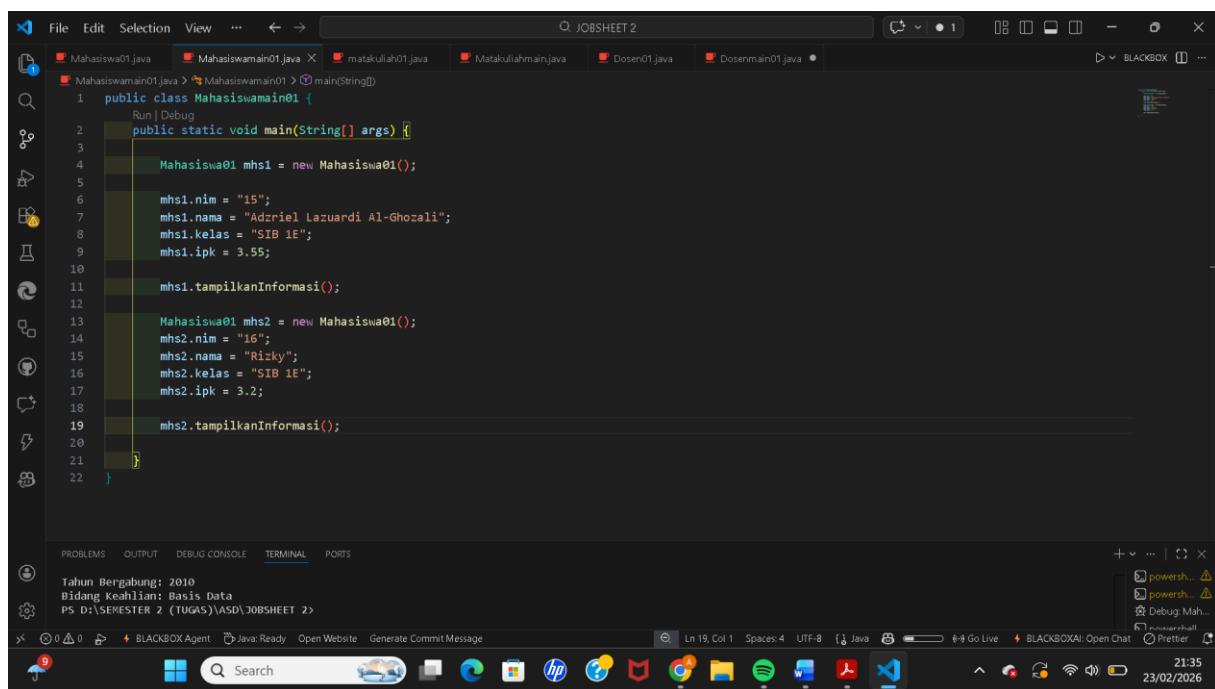
Mahasiswa01 mhs1 = new Mahasiswa01();

Nama object yang dihasilkan: mhs1

PERCOBAAN 3



```
File Edit Selection View ... Q JOBSITE 2
SOURCE CONTROL
No source control providers registered.
Mahasiswa01.java > Mahasiswa01 > tampilkaninformasi()
1 public class Mahasiswa01 {
2     String nim;
3     String nama;
4     String kelas;
5     double ipk;
6
7     void tampilkaninformasi () {
8         System.out.println("NIM :" + nim);
9         System.out.println("NAMA :" + nama);
10        System.out.println("KELAS :" + kelas);
11        System.out.println("IPK :" + ipk);
12    }
13
14    void ubahkelas(String kelasBaru) {
15        kelas = kelasBaru;
16    }
17
18    void updateipk(double ipkBaru) {
19        ipk = ipkBaru;
20    }
21
22    String nilaiKinerja(double ipk) {
23        if (ipk >= 3.5) {
24            return "Sangat Baik";
25        } else if (ipk >= 3.0) {
26            return "Baik";
27        } else if (ipk >= 2.5) {
28            return "Cukup";
29        } else {
30            return "Kurang";
31        }
32    }
}
Ln 13, Col 4 Spaces: 4 UTF-8 CRLF { Java Go Live BLACKBOX Open Chat Prettier
23/02/2026 14:51
```



```
File Edit Selection View ... Q JOBSITE 2
Mahasiswa01.java > Mahasiswa01 > main(String[])
Mahasiswa01.java > Mahasiswa01 > main(String[])
1 public class MahasiswaMain01 {
2     Run | Debug
3     public static void main(String[] args) {
4         Mahasiswa01 mhs1 = new Mahasiswa01();
5
6         mhs1.nim = "15";
7         mhs1.nama = "Adriiel Lazuardi Al-Ghozali";
8         mhs1.kelas = "SIB 1E";
9         mhs1.ipk = 3.55;
10
11        mhs1.tampilkanInformasi();
12
13        Mahasiswa01 mhs2 = new Mahasiswa01();
14        mhs2.nim = "16";
15        mhs2.nama = "Rizky";
16        mhs2.kelas = "SIB 1E";
17        mhs2.ipk = 3.2;
18
19        mhs2.tampilkanInformasi();
20
21    }
22
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Tahun Bergabung: 2010
Bidang Kehilangan: Basis Data
PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2>
Ln 19, Col 1 Spaces: 4 UTF-8 { Java Go Live BLACKBOX Open Chat Prettier
23/02/2026 21:35
```

```
NIM :15
NAMA :Adzriel Lazuardi Al-Ghozali
KELAS :S1SIB 1E
IPK :3.55
NIM :16
NAMA :Ricky
KELAS :S1ID 1E
NAMA :Ricky
KELAS :S1ID 1E
IPK :3.2
PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2>
```

JAWABAN PERTANYAAN

1. Pada class Mahasiswa, tunjukkan baris kode konstruktor berparameter!

```
Mahasiswa01(String nim, String nama, String kelas, double ipk) {
```

```
    this.nim = nim;
    this.nama = nama;
    this.kelas = kelas;
    this.ipk = ipk;
}
```

2. Perhatikan baris program berikut pada MahasiswaMain. Apa yang dilakukan?

```
Mahasiswa01 mhs2 = new Mahasiswa01("01", "Adzriel Lazuardi Al-Ghozali", "SIB 1E", 3.65);  
Baris tersebut digunakan untuk membuat object baru bernama mhs2
```

3. Hapus konstruktor default, lalu compile dan run. Bagaimana hasilnya? Jelaskan!

Program masih error karena kode:

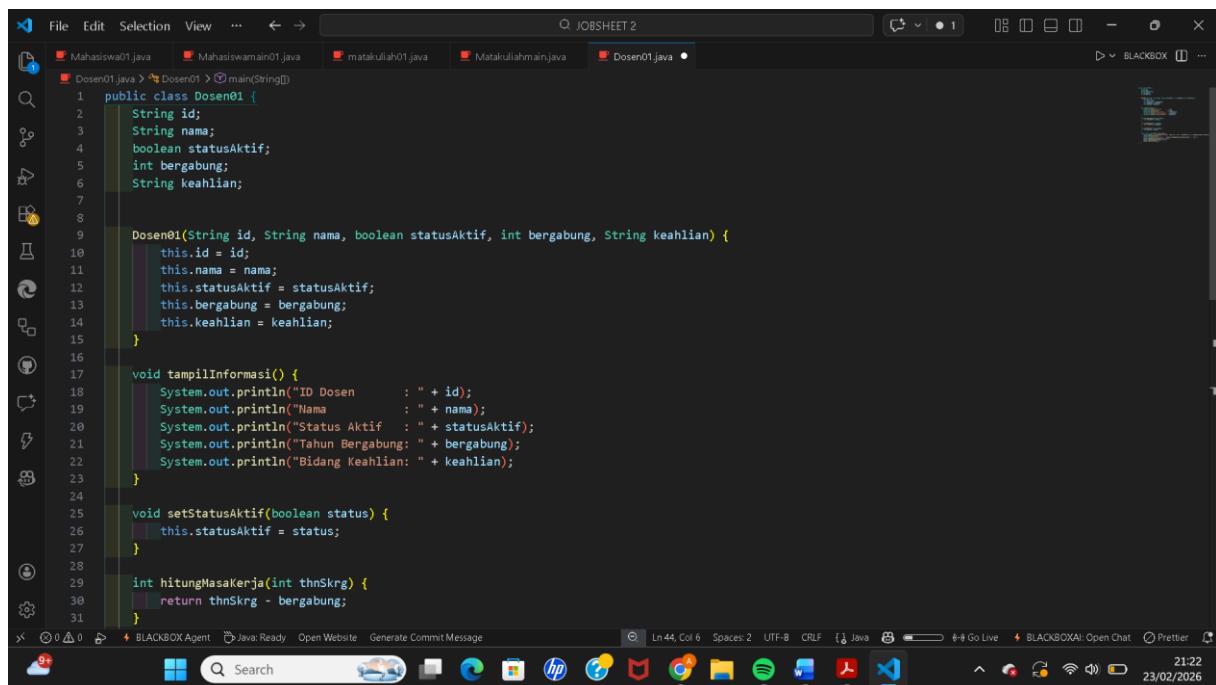
```
Mahasiswa01 mhs1 = new Mahasiswa01(); dan object tidak bisa dibuat tanpa parameter.
```

PRAKTIKUM 1

```
File Edit Selection View ... < > JOBSITE 2
Mahasiswa01.java Mahasiswa01.java matakuliah01.java
matakuliah01.java > matakuliah01 > tampilinformasi()
1 public class matakuliah01 {
2     String kodeMK;
3     String nama;
4     int sks;
5     int jumlahJam;
6
7     matakuliah01(String kodeMK, String nama, int sks, int jumlahJam) {
8         this.kodeMK = kodeMK;
9         this.nama = nama;
10        this.sks = sks;
11        this.jumlahJam = jumlahJam;
12    }
13
14    void tampilInformasi() {
15        System.out.println("Kode MK : " + kodeMK);
16        System.out.println("Nama MK : " + nama);
17        System.out.println("Jumlah SKS : " + sks);
18        System.out.println("Jumlah Jam : " + jumlahJam);
19    }
20
21    void ubahSKS(int sksBaru) {
22        this.sks = sksBaru;
23        System.out.println("SKS berhasil diubah menjadi " + sks);
24    }
25
26    void tambahJam(int jam) {
27
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2>
+<> Search
Ln 18, Col 39 Spaces: 4 UTF-8 CRLF Java Go Live BLACKBOXAI Open Chat Prettier
21:07 23/02/2026
```

```
File Edit Selection View ... < > JOBSITE 2
Mahasiswa01.java Mahasiswa01.java matakuliah01.java
matakuliah01.java > matakuliah01 > matakuliah01()
1 public class matakuliah01 {
2
3     void ubahSKS(int sksBaru) {
4         this.sks = sksBaru;
5         System.out.println("SKS berhasil diubah menjadi " + sks);
6     }
7
8     void tambahJam(int jam) {
9         this.jumlahJam += jam;
10        System.out.println("Jumlah jam sekarang: " + jumlahJam);
11    }
12
13     void kurangiJam(int jam) {
14         if (jumlahJam >= jam) {
15             jumlahJam -= jam;
16             System.out.println("Jumlah jam sekarang: " + jumlahJam);
17         }
18     }
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2>
+<> Search
Ln 7, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live BLACKBOXAI Open Chat Prettier
21:07 23/02/2026
```

PRAKTIKUM 2



```
File Edit Selection View ... ← → JOBSHEET 2 Dosen01.java Mahasiswa01.java MahasiswaMain01.java matakuliah01.java MatakuliahMain.java Dosen01.java BLACKBOX ...  
1 public class Dosen01 {  
2     String id;  
3     String nama;  
4     boolean statusAktif;  
5     int bergabung;  
6     String keahlian;  
7  
8     Dosen01(String id, String nama, boolean statusAktif, int bergabung, String keahlian) {  
9         this.id = id;  
10        this.nama = nama;  
11        this.statusAktif = statusAktif;  
12        this.bergabung = bergabung;  
13        this.keahlian = keahlian;  
14    }  
15  
16    void tampilInformasi() {  
17        System.out.println("ID Dosen      : " + id);  
18        System.out.println("Nama       : " + nama);  
19        System.out.println("Status Aktif   : " + statusAktif);  
20        System.out.println("Tahun Bergabung: " + bergabung);  
21        System.out.println("Bidang Keahlian: " + keahlian);  
22    }  
23  
24    void setStatusAktif(boolean status) {  
25        this.statusAktif = status;  
26    }  
27  
28    int hitungMasaKerja(int thnSkrug) {  
29        return thnSkrug - bergabung;  
30    }  
31 }  
Ln 44, Col 6 Spaces: 2 UTF-8 CRLF Java Go Live BLACKBOXAI: Open Chat Prettier 21:22 23/02/2026
```

The screenshot shows a Java code editor window titled "JOBSITE 2". The main pane displays the following Java code:

```
1  public class Dosen01 {  
2  
3      int hitungMasaKerja(int thnSkrg) {  
4          return thnSkrg - bergabung;  
5      }  
6  
7      void ubahKeahlian(String bidang) {  
8          this.keahlian = bidang;  
9      }  
10  
11     public static void main(String[] args) {  
12         Dosen01 dosen1 = new Dosen01(id: "D001", nama: "Dr. Andi", statusAktif: true, bergabung: 2010, keahlian: "Algoritma");  
13         dosen1.tampilInformasi();  
14         System.out.println("Masa Kerja: " + dosen1.hitungMasaKerja(thnSkrg: 2024) + " tahun");  
15         dosen1.ubahKeahlian(bidang: "Basis Data");  
16         dosen1.setStatusAktif(status: false);  
17         dosen1.tampilInformasi();  
18     }  
19 }  
20
```

The code uses Java 8 syntax, including the diamond operator for constructor initialization. The code editor has syntax highlighting for Java keywords and comments. A code completion dropdown is visible at the bottom of the code area.

The screenshot shows a terminal window titled "JOBSITE 2" with the command PS D:\SEMESTER 2 (TUGAS)\ASD\JOBSITE 2> & 'c:\Program Files\Java\jdk-17\bin\java.exe' '--agentlib:jmap=transport=dt_socket,server=n,suspend=y,address=localhost:62905' '--XX:ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\HP\AppData\Roaming\Code\User\workspaceStorage\de892fd880e259a6f59c14c74e04663\redhat\java\jdt_ws\JOBSITE 2_7e5e18d\bin' 'Dosen01'. The output of the program is displayed below the command:

```
ID Dosen : D001  
Nama : Dr. Andi  
Status Aktif : true  
Tahun Bergabung: 2010  
Bidang Keahlian: Algoritma  
Masa Kerja: 14 tahun  
ID Dosen : D001  
Nama : Dr. Andi  
Status Aktif : false  
Tahun Bergabung: 2010  
Bidang Keahlian: Basis Data
```

The terminal window also shows the file navigation bar at the top and the system tray at the bottom.

LINK GITHUB: <https://github.com/adzriellag-rgb/SEMESTER-2--TUGAS-/tree/main/JOBSITE2>