Nama: Wahda Adella Putri Febriana

Kelas: 1B

NIM: 244107020156

Praktikum 1.1

```java
import java.util.Scanner;

public class Praktikum11 {
    Run | Debug
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        System.out.println(x:"Program Menghitung Nilai Akhir");
        System.out.println(x:"================");

        System.out.print(s:"Masukkan nilai Tugas\t: ");
        double tugas = input.nextDouble();

        System.out.print(s:"Masukkan nilai Kuis\t: ");
        double kuis = input.nextDouble();

        System.out.print(s:"Masukkan nilai UTS\t: ");
        double uts = input.nextDouble();

        System.out.print(s:"Masukkan nilai UAS\t: ");
        double uas = input.nextDouble();

        if (tugas < 0 || tugas > 100 || kuis < 0 || kuis > 100 || uts < 0 || uts > 100 || uas < 0 || uas > 100) {
            System.out.println(x:"================");
            System.out.println(x:"================");
            System.out.println(x:"Nilai tidak valid");
            System.out.println(x:"================");
            System.out.println(x:"================");
        } else {
            double nilaiAkhir = (0.2 * tugas) + (0.2 * kuis) + (0.3 * uts) + (0.3 * uas);

            String nilaiHuruf;
```

```java
            if (nilaiAkhir > 80 && nilaiAkhir <= 100) {
                nilaiHuruf = "A";
            } else if (nilaiAkhir > 73 && nilaiAkhir <= 80) {
                nilaiHuruf = "B+";
            } else if (nilaiAkhir > 65 && nilaiAkhir <= 73) {
                nilaiHuruf = "B";
            } else if (nilaiAkhir > 60 && nilaiAkhir <= 65) {
                nilaiHuruf = "C+";
            } else if (nilaiAkhir > 50 && nilaiAkhir <= 60) {
                nilaiHuruf = "C";
            } else if (nilaiAkhir > 39 && nilaiAkhir <= 50) {
                nilaiHuruf = "D";
            } else {
                nilaiHuruf = "E";
            }

            String statusLulus = (nilaiHuruf.equals(anObject:"A") || nilaiHuruf.equals(anObject:"B+") || nilaiHur
                    ? "LULUS" : "TIDAK LULUS";

            System.out.println(x:"================");
            System.out.println(x:"================");
            System.out.println("Nilai Akhir\t: " + nilaiAkhir);
            System.out.println("Nilai Huruf\t: " + nilaiHuruf);
            System.out.println(x:"================");
            System.out.println(x:"================");
            System.out.println("SELAMAT ANDA " + statusLulus);
        }
```

```
Program Menghitung Nilai Akhir
================
Masukkan nilai Tugas    : 90
Masukkan nilai Kuis     : 90
Masukkan nilai UTS      : 60
Masukkan nilai UAS      : 70
================
================
Nilai Akhir     : 75.0
Nilai Huruf     : B+
================
================
SELAMAT ANDA LULUS
PS D:\Project\Kuliah\SMT2\Praktikum-ASD\Jobsheet1>
```

Praktikum 1.2

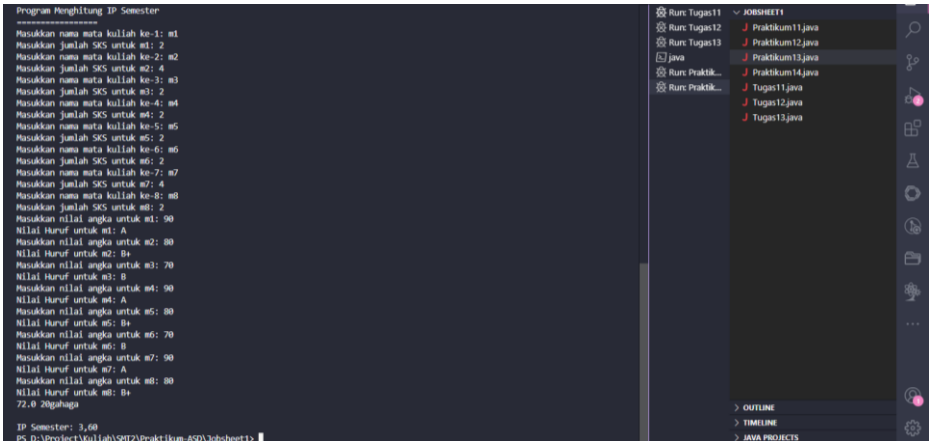
```java
import java.util.Scanner;

public class Praktikum12 {
    Run | Debug
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Masukkan NIM: ");
        String nim = scanner.nextLine();

        System.out.println("================");

        int n;
        if (nim.length() >= 2) {
            n = Integer.parseInt(nim.substring(nim.length() - 2));
        } else {
            System.out.println("NIM tidak valid.");
            scanner.close();
            return;
        }

        System.out.println("n : " + n);

        for (int i = 1; i <= n; i++) {
            if (i == 6 || i == 10) {
                continue;
            }
            if (i % 2 == 1) {
                System.out.print("* ");
            } else {
                System.out.print(i + " ");
            }
        }
```

```
Masukkan NIM: 244107020156
================
n : 56
* 2 * 4 * * 8 * * 12 * 14 * 16 * 18 * 20 * 22 * 24 * 26 * 28 * 30 * 32 * 34 * 36 * 38 * 40 * 42 * 44 * 46 * 48 * 50 * 5
2 * 54 * 56
PS D:\Project\Kuliah\SMT2\Praktikum-ASD\Jobsheet1>
```

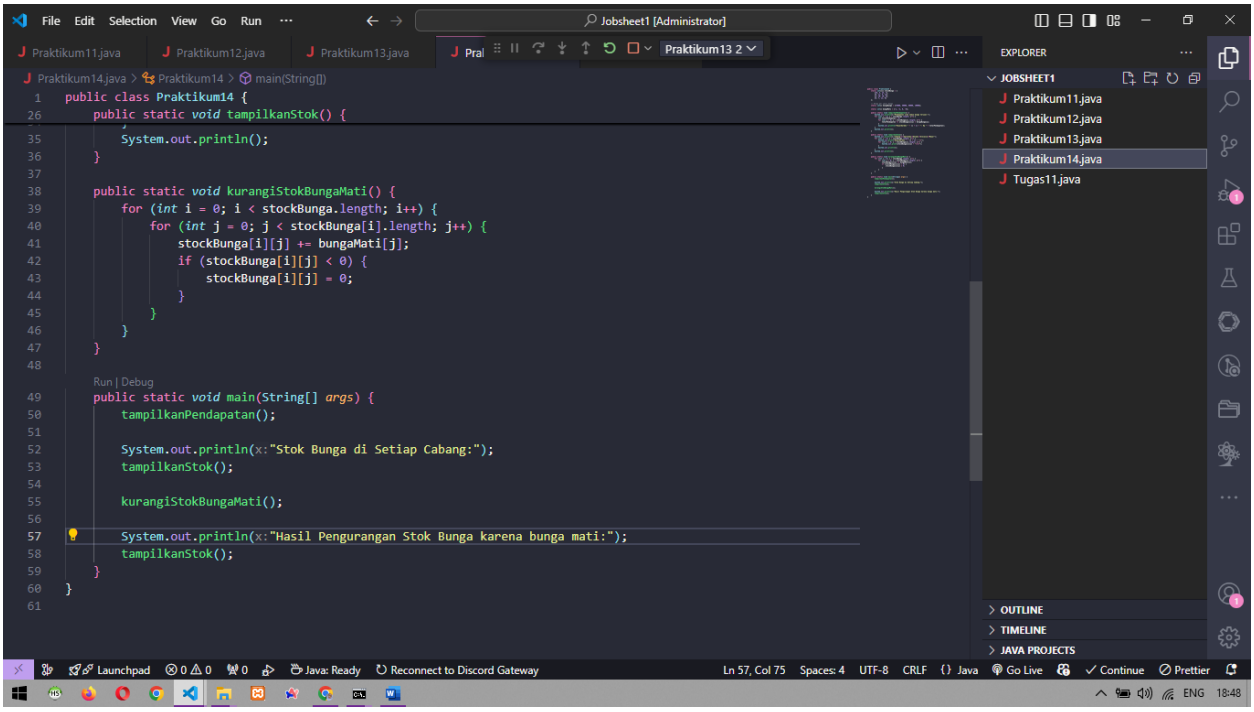
Praktikum 1.3

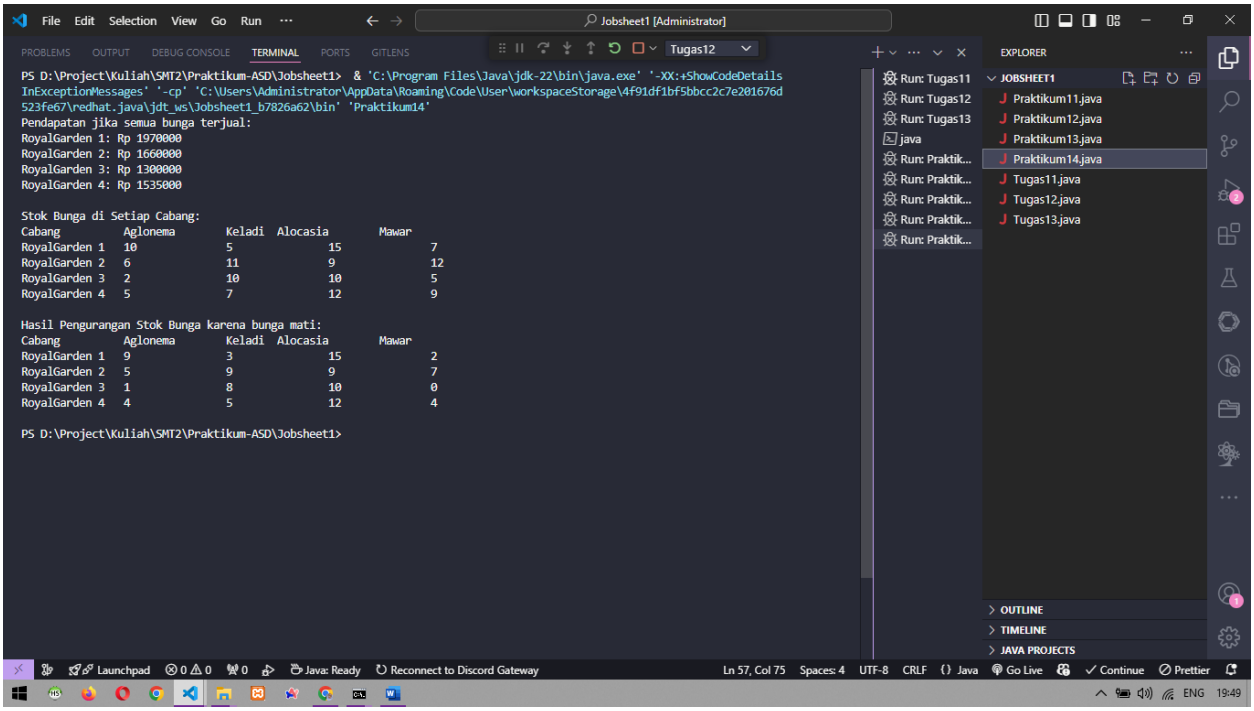
```java
import java.util.Scanner;

public class Praktikum13 {
    Run | Debug
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Program Menghitung IP Semester");
        System.out.println("================");

        int jumlahMataKuliah = 8;

        String[] mataKuliah = new String[jumlahMataKuliah];
        int[] sksMataKuliah = new int[jumlahMataKuliah];
        double[] nilaiAngkaMataKuliah = new double[jumlahMataKuliah];

        for (int i = 0; i < jumlahMataKuliah; i++) {
            System.out.print("Masukkan nama mata kuliah ke-" + (i + 1) + ": ");
            mataKuliah[i] = scanner.nextLine();

            System.out.print("Masukkan jumlah SKS untuk " + mataKuliah[i] + ": ");
            sksMataKuliah[i] = scanner.nextInt();
            scanner.nextLine();
        }

        double[] batasNilai = {80, 73, 65, 50, 39, 0};
        String[] nilaiHuruf = {"A", "B+", "B", "C", "D", "E"};
        double[] bobotNilai = {4.0, 3.5, 3.0, 2.5, 2.0, 1.0};

        int totalSKS = 0;
        double totalBobot = 0;
```

```java
        for (int i = 0; i < jumlahMataKuliah; i++) {
            System.out.print("Masukkan nilai angka untuk " + mataKuliah[i] + ": ");
            nilaiAngkaMataKuliah[i] = scanner.nextDouble();

            String huruf = "E";
            double bobot = 0.0;

            for (int j = 0; j < batasNilai.length; j++) {
                if (nilaiAngkaMataKuliah[i] > batasNilai[j]) {
                    huruf = nilaiHuruf[j];
                    bobot = bobotNilai[j];
                    break;
                }
            }

            System.out.println("Nilai Huruf untuk " + mataKuliah[i] + ": " + huruf);

            totalSKS += sksMataKuliah[i];
            totalBobot += bobot * sksMataKuliah[i];
        }

        System.err.println(totalBobot + " " + totalSKS + "gahaga");
        double ipSemester = totalBobot / totalSKS;

        System.out.printf("\nIP Semester: %.2f\n", ipSemester);

        scanner.close();
    }
}
```

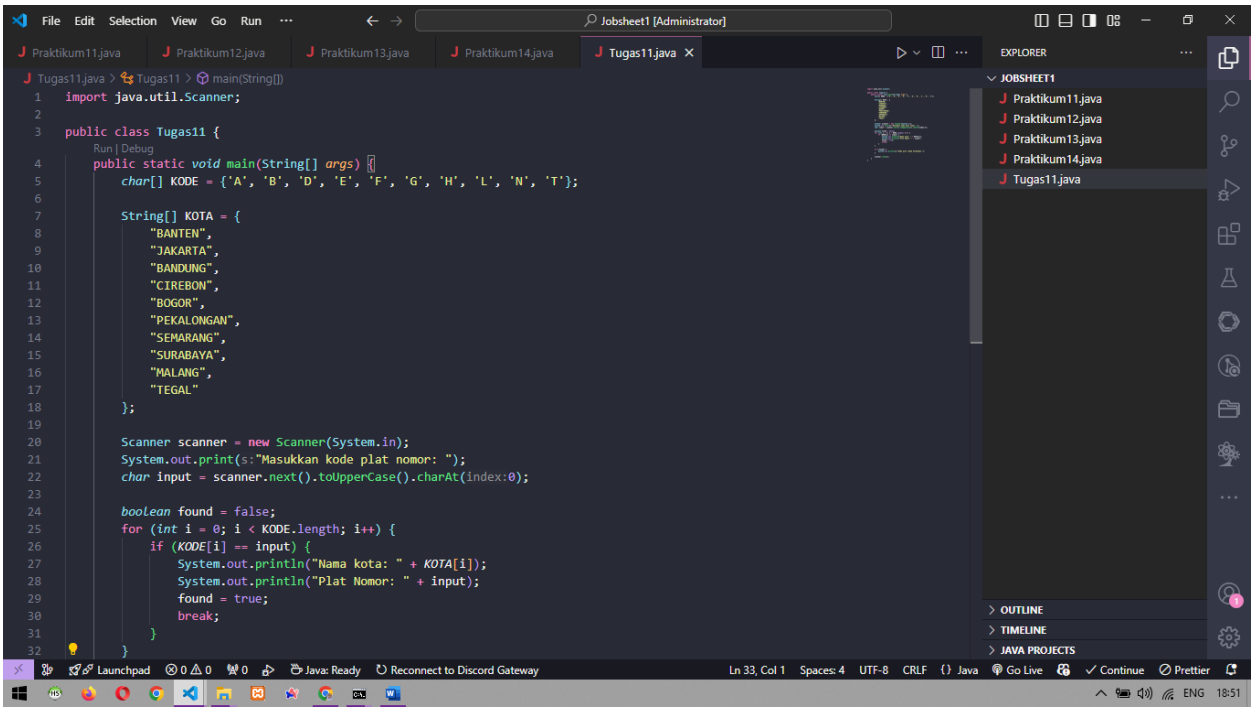


Praktikum 1.4

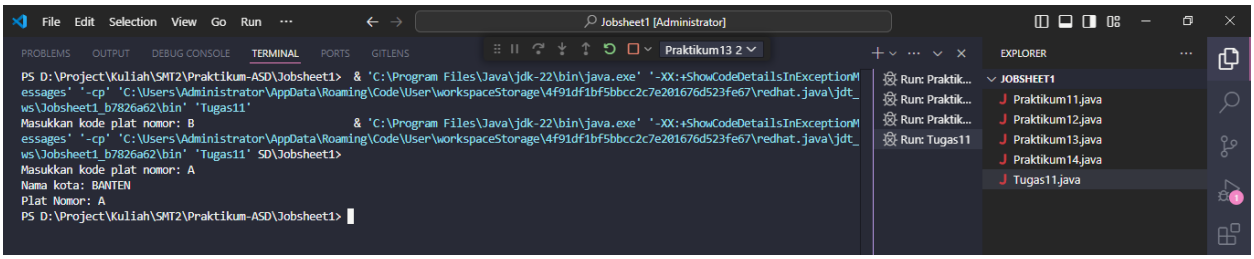



File Edit Selection View Go Run
Jobsheet1 [Administrator]
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
Tugas12
PS D:\Project\Kuliah\SMT2\Praktikum-ASD\Jobsheet1> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '-XX:+ShowCodeDetails InExceptionMessages' '-cp' 'C:\Users\Administrator\AppData\Roaming\Code\User\workspaceStorage\4f91df1bf5bbcc2c7e201676d523fe67\redhat.java\jdt_ws\Jobsheet1_b7826a62\bin' 'Praktikum14'
Pendapatan jika semua bunga terjual:
RoyalGarden 1: Rp 1970000
RoyalGarden 2: Rp 1660000
RoyalGarden 3: Rp 1300000
RoyalGarden 4: Rp 1535000
Stok Bunga di Setiap Cabang:
Cabang Aglonema Keladi Alocasia Mawar
RoyalGarden 1 10 5 15 7
RoyalGarden 2 6 11 9 12
RoyalGarden 3 2 10 10 5
RoyalGarden 4 5 7 12 9
Hasil Pengurangan Stok Bunga karena bunga mati:
Cabang Aglonema Keladi Alocasia Mawar
RoyalGarden 1 9 3 15 2
RoyalGarden 2 5 9 9 7
RoyalGarden 3 1 8 10 0
RoyalGarden 4 4 5 12 4
PS D:\Project\Kuliah\SMT2\Praktikum-ASD\Jobsheet1>
Run: Tugas11
Run: Tugas12
Run: Tugas13
java
Run: Praktik...
EXPLORER
JOBSHEET1
Praktikum11.java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas12.java
Tugas13.java
OUTLINE
TIMELINE
JAVA PROJECTS
Launchpad
Java: Ready
Reconnect to Discord Gateway
Ln 57, Col 75 Spaces: 4 UTF-8 CRLF Java
Go Live
Continue
Prettier
ENG 19:49

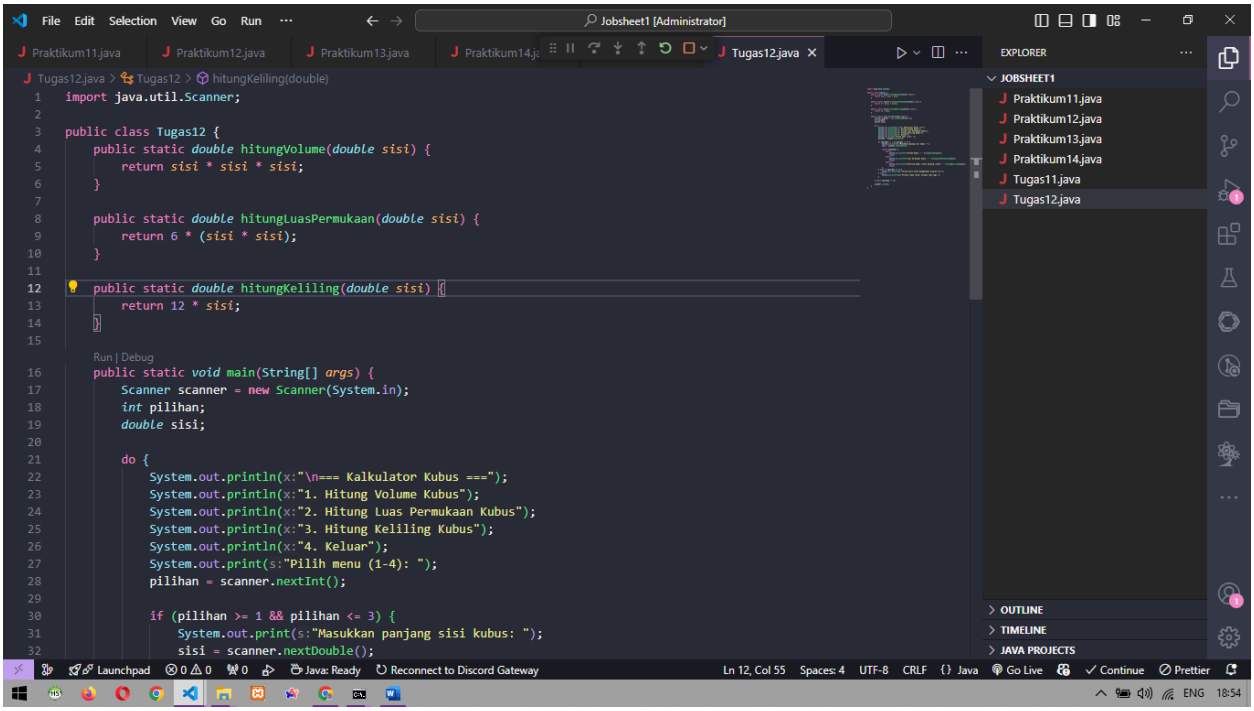
Tugas 1.1


File Edit Selection View Go Run
Jobsheet1 [Administrator]
Praktikum11.java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas11.java > Tugas11 > main(String[])
import java.util.Scanner;
public class Tugas11 {
Run | Debug
public static void main(String[] args) {
char[] KODE = {'A', 'B', 'D', 'E', 'F', 'G', 'H', 'L', 'N', 'T'};
String[] KOTA = {
"BANTEN",
"JAKARTA",
"BANDUNG",
"CIREBON",
"BOGOR",
"PEKALONGAN",
"SEMARANG",
"SURABAYA",
"MALANG",
"TEGAL"
};
Scanner scanner = new Scanner(System.in);
System.out.print(s:"Masukkan kode plat nomor: ");
char input = scanner.next().toUpperCase().charAt(index:0);
boolean found = false;
for (int i = 0; i < KODE.length; i++) {
if (KODE[i] == input) {
System.out.println("Nama kota: " + KOTA[i]);
System.out.println("Plat Nomor: " + input);
found = true;
break;
}
}
EXPLORER
JOBSHEET1
Praktikum11.java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
OUTLINE
TIMELINE
JAVA PROJECTS
Launchpad
Java: Ready
Reconnect to Discord Gateway
Ln 33, Col 1 Spaces: 4 UTF-8 CRLF Java
Go Live
Continue
Prettier
ENG 18:51

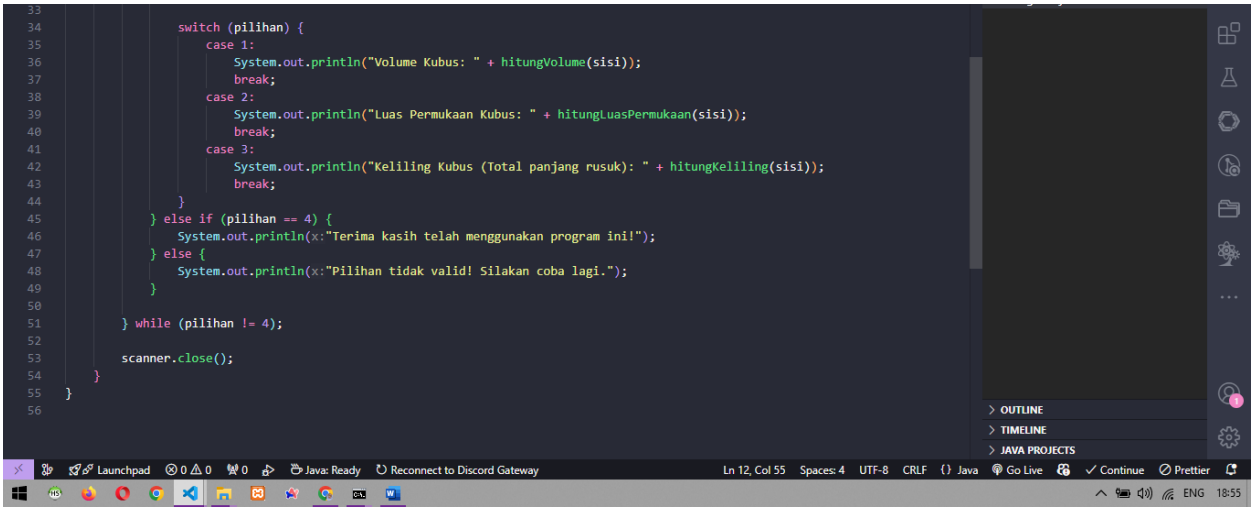

if (!found) {
System.out.println(x:"Kode plat tidak ditemukan.");
}
scanner.close();
}



Tugas 1.2




```java
import java.util.Scanner;

public class Tugas12 {
    public static double hitungVolume(double sisi) {
        return sisi * sisi * sisi;
    }

    public static double hitungLuasPermukaan(double sisi) {
        return 6 * (sisi * sisi);
    }

    public static double hitungKeliling(double sisi) {
        return 12 * sisi;
    }

    Run | Debug
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int pilihan;
        double sisi;

        do {
            System.out.println("\n=== Kalkulator Kubus ===");
            System.out.println("1. Hitung Volume Kubus");
            System.out.println("2. Hitung Luas Permukaan Kubus");
            System.out.println("3. Hitung Keliling Kubus");
            System.out.println("4. Keluar");
            System.out.print("Pilih menu (1-4): ");
            pilihan = scanner.nextInt();

            if (pilihan >= 1 && pilihan <= 3) {
                System.out.print("Masukkan panjang sisi kubus: ");
                sisi = scanner.nextDouble();
```




```java
                switch (pilihan) {
                    case 1:
                        System.out.println("Volume Kubus: " + hitungVolume(sisi));
                        break;
                    case 2:
                        System.out.println("Luas Permukaan Kubus: " + hitungLuasPermukaan(sisi));
                        break;
                    case 3:
                        System.out.println("Keliling Kubus (Total panjang rusuk): " + hitungKeliling(sisi));
                        break;
                }
            } else if (pilihan == 4) {
                System.out.println("Terima kasih telah menggunakan program ini!");
            } else {
                System.out.println("Pilihan tidak valid! Silakan coba lagi.");
            }

        } while (pilihan != 4);

        scanner.close();
    }
}
```

```
=== Kalkulator Kubus ===
1. Hitung Volume Kubus
2. Hitung Luas Permukaan Kubus
3. Hitung Keliling Kubus
4. Keluar
Pilih menu (1-4): 1
Masukkan panjang sisi kubus: 2
Volume Kubus: 8.0

=== Kalkulator Kubus ===
1. Hitung Volume Kubus
2. Hitung Luas Permukaan Kubus
3. Hitung Keliling Kubus
4. Keluar
Pilih menu (1-4): 2
Masukkan panjang sisi kubus: 2
Luas Permukaan Kubus: 24.0

=== Kalkulator Kubus ===
1. Hitung Volume Kubus
2. Hitung Luas Permukaan Kubus
3. Hitung Keliling Kubus
4. Keluar
Pilih menu (1-4): 2
Masukkan panjang sisi kubus: 2
Luas Permukaan Kubus: 24.0

=== Kalkulator Kubus ===
1. Hitung Volume Kubus
2. Hitung Luas Permukaan Kubus
3. Hitung Keliling Kubus
4. Keluar
Pilih menu (1-4):
```

Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas12.java

OUTLINE
TIMELINE
JAVA PROJECTS

Tugas 1.3

```java
import java.util.Scanner;

public class Tugas13 {

    static Scanner scanner = new Scanner(System.in);

    static void tampilkanJadwal(String[] namaMatkul, int[] sks, int[] semester, String[] hariKuliah) {
        for (int i = 0; i < namaMatkul.length; i++) {
            System.out.println(namaMatkul[i] + " | SKS: " + sks[i] + " | Semester: " + semester[i] + " | Hari:
            " + hariKuliah[i]);
        }
    }

    static void tampilkanJadwalByHari(String[] namaMatkul, int[] sks, int[] semester, String[] hariKuliah,
    String hari) {
        boolean ditemukan = false;
        for (int i = 0; i < namaMatkul.length; i++) {
            if (hariKuliah[i].equalsIgnoreCase(hari)) {
                System.out.println(namaMatkul[i] + " | SKS: " + sks[i] + " | Semester: " + semester[i]);
                ditemukan = true;
            }
        }
        if (!ditemukan) {
            System.out.println("Tidak ada mata kuliah pada hari " + hari);
        }
    }

    static void tampilkanJadwalBySemester(String[] namaMatkul, int[] sks, int[] semester, String[] hariKuliah,
    int sem) {
```

Praktikum11.java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas12.java
Tugas13.java

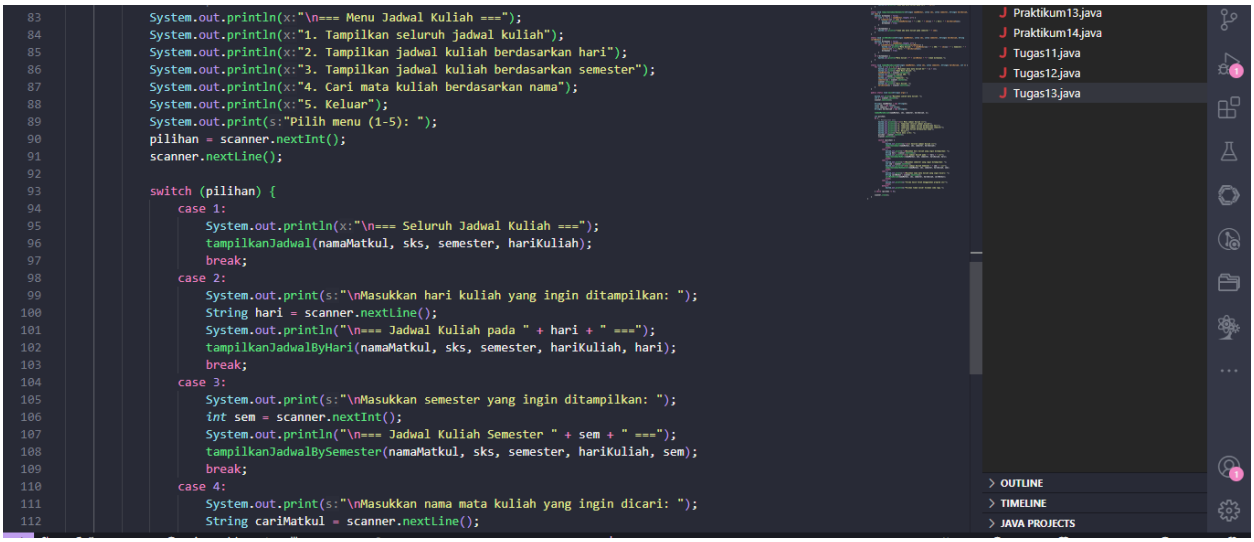
OUTLINE

```java
            if (semester[i] == sem) {
                System.out.println(namaMatkul[i] + " | SKS: " + sks[i] + " | Hari: " + hariKuliah[i]);
                ditemukan = true;
            }
        }
        if (!ditemukan) {
            System.out.println("Tidak ada mata kuliah pada semester " + sem);
        }
    }

    static void cariMataKuliah(String[] namaMatkul, int[] sks, int[] semester, String[] hariKuliah, String
    cariMatkul) {
        boolean ditemukan = false;
        for (int i = 0; i < namaMatkul.length; i++) {
            if (namaMatkul[i].equalsIgnoreCase(cariMatkul)) {
                System.out.println("Mata Kuliah: " + namaMatkul[i] + " | SKS: " + sks[i] + " | Semester: " +
                semester[i] + " | Hari: " + hariKuliah[i]);
                ditemukan = true;
            }
        }
        if (!ditemukan) {
            System.out.println("Mata kuliah \"" + cariMatkul + "\" tidak ditemukan.");
        }
    }

    static void tambahMataKuliah(String[] namaMatkul, int[] sks, int[] semester, String[] hariKuliah, int n) {
        for (int i = 0; i < n; i++) {
            System.out.println("\nMasukkan data mata kuliah ke-" + (i + 1));
            System.out.print(s:"Nama Mata Kuliah: ");
```

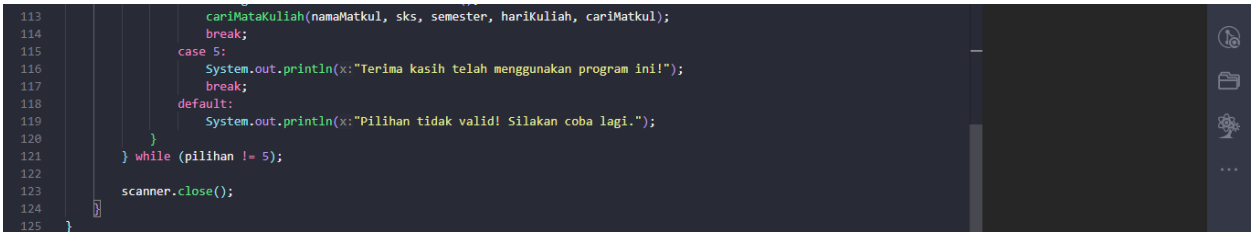
Praktikum14.java
Tugas11.java
Tugas12.java
Tugas13.java

OUTLINE
TIMELINE
JAVA PROJECTS

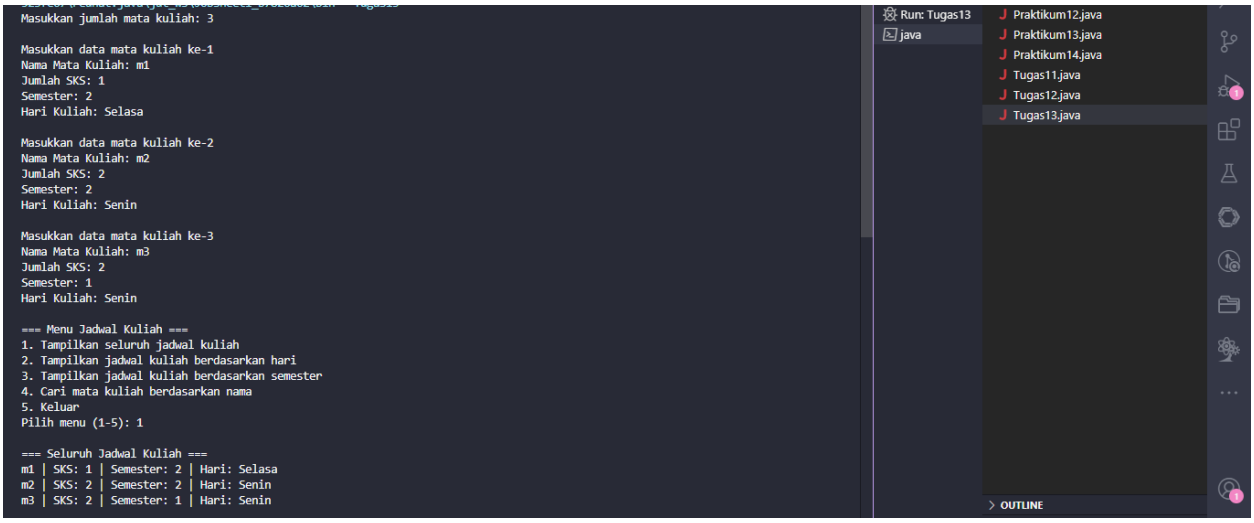
```
56            namaMatkul[i] = scanner.nextLine();
57            System.out.print("Jumlah SKS: ");
58            sks[i] = scanner.nextInt();
59            System.out.print("Semester: ");
60            semester[i] = scanner.nextInt();
61            scanner.nextLine();
62            System.out.print("Hari Kuliah: ");
63            hariKuliah[i] = scanner.nextLine();
64        }
65    }
66
      Run | Debug
67    public static void main(String[] args) {
68
69        System.out.print("Masukkan jumlah mata kuliah: ");
70        int n = scanner.nextInt();
71        scanner.nextLine();
72
73        String[] namaMatkul = new String[n];
74        int[] sks = new int[n];
75        int[] semester = new int[n];
76        String[] hariKuliah = new String[n];
77
78        tambahMataKuliah(namaMatkul, sks, semester, hariKuliah, n);      You, 1 second ago • Uncommitted changes
79
80        int pilihan;
81        do {
82            // Menampilkan menu
83            System.out.println("\n=== Menu Jadwal Kuliah ===");
```

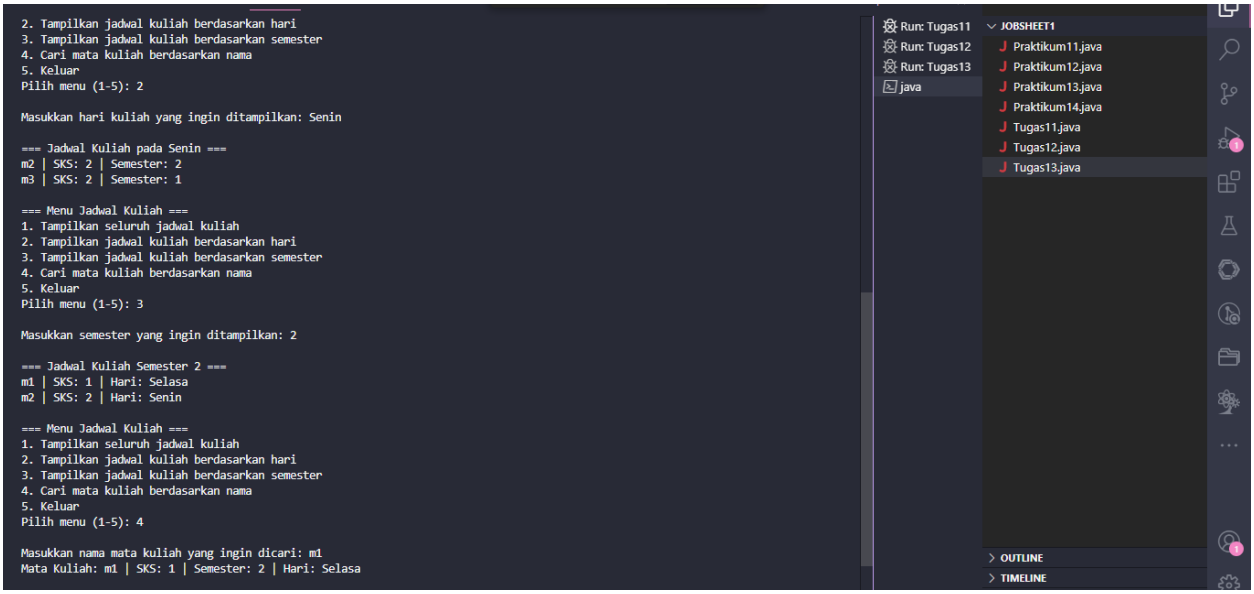



```
83            System.out.println("\n=== Menu Jadwal Kuliah ===");
84            System.out.println("1. Tampilkan seluruh jadwal kuliah");
85            System.out.println("2. Tampilkan jadwal kuliah berdasarkan hari");
86            System.out.println("3. Tampilkan jadwal kuliah berdasarkan semester");
87            System.out.println("4. Cari mata kuliah berdasarkan nama");
88            System.out.println("5. Keluar");
89            System.out.print("Pilih menu (1-5): ");
90            pilihan = scanner.nextInt();
91            scanner.nextLine();
92
93            switch (pilihan) {
94                case 1:
95                    System.out.println("\n=== Seluruh Jadwal Kuliah ===");
96                    tampilkanJadwal(namaMatkul, sks, semester, hariKuliah);
97                    break;
98                case 2:
99                    System.out.print("\nMasukkan hari kuliah yang ingin ditampilkan: ");
100                   String hari = scanner.nextLine();
101                   System.out.println("\n=== Jadwal Kuliah pada " + hari + " ===");
102                   tampilkanJadwalByHari(namaMatkul, sks, semester, hariKuliah, hari);
103                   break;
104               case 3:
105                   System.out.print("\nMasukkan semester yang ingin ditampilkan: ");
106                   int sem = scanner.nextInt();
107                   System.out.println("\n=== Jadwal Kuliah Semester " + sem + " ===");
108                   tampilkanJadwalBySemester(namaMatkul, sks, semester, hariKuliah, sem);
109                   break;
110               case 4:
111                   System.out.print("\nMasukkan nama mata kuliah yang ingin dicari: ");
112                   String cariMatkul = scanner.nextLine();
```

```
113                   cariMataKuliah(namaMatkul, sks, semester, hariKuliah, cariMatkul);
114                   break;
115               case 5:
116                   System.out.println("Terima kasih telah menggunakan program ini!");
117                   break;
118               default:
119                   System.out.println("Pilihan tidak valid! Silakan coba lagi.");
120           }
121       } while (pilihan != 5);
122
123       scanner.close();
124   }
125
```


Masukkan jumlah mata kuliah: 3
Masukkan data mata kuliah ke-1
Nama Mata Kuliah: m1
Jumlah SKS: 1
Semester: 2
Hari Kuliah: Selasa
Masukkan data mata kuliah ke-2
Nama Mata Kuliah: m2
Jumlah SKS: 2
Semester: 2
Hari Kuliah: Senin
Masukkan data mata kuliah ke-3
Nama Mata Kuliah: m3
Jumlah SKS: 2
Semester: 1
Hari Kuliah: Senin
=== Menu Jadwal Kuliah ===
1. Tampilkan seluruh jadwal kuliah
2. Tampilkan jadwal kuliah berdasarkan hari
3. Tampilkan jadwal kuliah berdasarkan semester
4. Cari mata kuliah berdasarkan nama
5. Keluar
Pilih menu (1-5): 1
=== Seluruh Jadwal Kuliah ===
m1 | SKS: 1 | Semester: 2 | Hari: Selasa
m2 | SKS: 2 | Semester: 2 | Hari: Senin
m3 | SKS: 2 | Semester: 1 | Hari: Senin
Run: Tugas13
java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas12.java
Tugas13.java
OUTLINE


2. Tampilkan jadwal kuliah berdasarkan hari
3. Tampilkan jadwal kuliah berdasarkan semester
4. Cari mata kuliah berdasarkan nama
5. Keluar
Pilih menu (1-5): 2
Masukkan hari kuliah yang ingin ditampilkan: Senin
=== Jadwal Kuliah pada Senin ===
m2 | SKS: 2 | Semester: 2
m3 | SKS: 2 | Semester: 1
=== Menu Jadwal Kuliah ===
1. Tampilkan seluruh jadwal kuliah
2. Tampilkan jadwal kuliah berdasarkan hari
3. Tampilkan jadwal kuliah berdasarkan semester
4. Cari mata kuliah berdasarkan nama
5. Keluar
Pilih menu (1-5): 3
Masukkan semester yang ingin ditampilkan: 2
=== Jadwal Kuliah Semester 2 ===
m1 | SKS: 1 | Hari: Selasa
m2 | SKS: 2 | Hari: Senin
=== Menu Jadwal Kuliah ===
1. Tampilkan seluruh jadwal kuliah
2. Tampilkan jadwal kuliah berdasarkan hari
3. Tampilkan jadwal kuliah berdasarkan semester
4. Cari mata kuliah berdasarkan nama
5. Keluar
Pilih menu (1-5): 4
Masukkan nama mata kuliah yang ingin dicari: m1
Mata Kuliah: m1 | SKS: 1 | Semester: 2 | Hari: Selasa
Run: Tugas11
Run: Tugas12
Run: Tugas13
java
JOBSHEET1
Praktikum11.java
Praktikum12.java
Praktikum13.java
Praktikum14.java
Tugas11.java
Tugas12.java
Tugas13.java
OUTLINE
TIMELINE