

JOBSCHEET 1
POLITEKNIK NEGERI MALANG TAHUN
2025/2026

Oleh :
Muhammad Aubin Kurniawan
254107060035



PROGRAM STUDI
D-IV SISTEM INFORMASI BISNIS
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
FEBRUARI 2026

JOBSHEET 1

DASAR PEMOGRAMAN

1. Pemilihan



```
1 import java.util.Scanner;
2
3 public class hitungnilai {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6
7         System.out.println("program menghitung Nilai Akhir");
8         System.out.println("=====");
9
10        System.out.print("Masukkan nilai tugas: ");
11        int tugas = sc.nextInt();
12        System.out.print("Masukkan nilai kuis : ");
13        int kuis = sc.nextInt();
14        System.out.print("Masukkan nilai uts : ");
15        int uts = sc.nextInt();
16        System.out.print("Masukkan nilai uas : ");
17        int uas = sc.nextInt();
18
19        double total = (tugas * 0.2) + (kuis * 0.2) + (uts * 0.3) + (uas * 0.3);
20
21        System.out.println("=====");
22
23        if (total < 0 || total > 100) {
24            System.out.println("Nilai total tidak valid");
25        } else {
26            String nilaiHuruf;
27            if (total > 80) {
28                nilaiHuruf = "A";
29            } else if (total > 73) {
30                nilaiHuruf = "B+";
31            } else if (total > 65) {
32                nilaiHuruf = "B";
33            } else if (total > 60) {
34                nilaiHuruf = "C+";
35            } else if (total > 50) {
36                nilaiHuruf = "C";
37            } else if (total > 39) {
38                nilaiHuruf = "D";
39            } else {
40                nilaiHuruf = "E";
41            }
42
43            System.out.printf("Nilai total: %.2f\n", total);
44            System.out.println("Nilai huruf: " + nilaiHuruf);
45            System.out.println("=====");
46
47            System.out.print("Status Kelulusan: ");
48            if (nilaiHuruf.equals("E") || nilaiHuruf.equals("D")) {
49                System.out.println("Tidak Lulus");
50            } else {
51                System.out.println("Lulus");
52            }
53        }
54    }
55 }
```

<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/hitungnilai.java>

```
program menghitung Nilai Akhir  
=====  
Masukkan nilai tugas: 80  
Masukkan nilai kuis : 76  
Masukkan nilai uts : 87  
Masukkan nilai uas : 56  
=====  
Nilai total: 74.10  
Nilai huruf: B+  
=====  
Status Kelulusan: Lulus
```

```
program menghitung Nilai Akhi  
=====  
Masukkan nilai tugas: 97  
Masukkan nilai kuis : 85  
Masukkan nilai uts : 78  
Masukkan nilai uas : 999  
=====  
Nilai total tidak valid  
[bibb@bibb-b450mk jobsheet1-A]
```

2. Perulangan

```
1 import java.util.Scanner;
2
3 public class program2 {
4     static Scanner sc = new Scanner(System.in);
5
6     Run | Debug
7     public static void main(String[] args) {
8         System.out.print("Input nim : ");
9         long nim = sc.nextLong();
10        int n = (int) (nim % 100);
11        System.out.println("n = " + n);
12        if (n < 10) {
13            n = n + 10;
14        }
15        for (int i = 1; i <= n; i++) {
16            if (i == 10 || i == 15) {
17                continue;
18            } else if (i % 3 == 0) {
19                System.out.print("#");
20            } else if (i % 2 != 0) {
21                System.out.print("*");
22            } else {
23                System.out.print(i);
24            }
25        }
26    }
27 }
```

<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/perulangan.java>

```
Input nim : 254107060035
n = 35
○ * 2 # 4 * # * 8 # * # * 14 16 * # * 20 # 22 * # * 26 # 28 * # * 32 # 34 *
```

3. Array

```
1 import java.util.Scanner;
2
3 public class nilai {
4     static Scanner sc = new Scanner(System.in);
5
6     static String[] namaMK = {
7         "Pancasila",
8         "Konsep Teknologi Informasi",
9         "CTPS",
10        "Matematika Dasar",
11        "Bahasa Inggris",
12        "Dasar Pemrograman",
13        "Praktikum Dasar Pemrograman",
14        "K3"
15    };
16
17    static int jumlahMK = namaMK.length;
18    static double[] nilaiMK = new double[jumlahMK];
19
20    public static String konversinilaiHuruf(double nilai) {
21        if (nilai > 80)
22            return "A";
23        else if (nilai > 73)
24            return "B+";
25        else if (nilai > 65)
26            return "B";
27        else if (nilai > 60)
28            return "C+";
29        else if (nilai > 50)
30            return "C";
31        else if (nilai > 39)
32            return "D";
33        else
34            return "E";
35    }
36
37    public static double bobotNilai(double nilai) {
38        if (nilai > 80)
39            return 4.0;
40        else if (nilai > 73)
41            return 3.5;
42        else if (nilai > 65)
43            return 3.0;
44        else if (nilai > 60)
45            return 2.5;
46        else if (nilai > 50)
47            return 2.0;
48        else if (nilai > 39)
49            return 1.0;
50        else
51            return 0.0;
52    }
53
54    public static void main(String[] args) {
55        System.out.println("=====");
56        System.out.println("Program Menghitung IP Semester");
57        System.out.println("=====");
58
59        for (int i = 0; i < jumlahMK; i++) {
60            System.out.print("Masukkan nilai Angka untuk MK " + namaMK[i] + ": ");
61            nilaiMK[i] = sc.nextDouble();
62        }
63
64        System.out.println("=====");
65        System.out.printf("%-30s %-10s %-10s %10s\n", "Mata Kuliah", "Nilai", "Huruf", "Bobot");
66        System.out.println("=====");
67
68        double totalBobot = 0;
69        for (int i = 0; i < jumlahMK; i++) {
70            double bobot = bobotNilai(nilaiMK[i]);
71            String huruf = konversinilaiHuruf(nilaiMK[i]);
72            System.out.printf("%-30s %-10.2f %-10s %-10.2f\n",
73                namaMK[i], nilaiMK[i], huruf, bobot);
74
75            totalBobot += bobot;
76        }
77
78        System.out.println("=====");
79        double ipSemester = totalBobot / jumlahMK;
80        System.out.printf("IP Semester: %.2f\n", ipSemester);
81        System.out.println("=====");
82    }
83 }
```

```
=====
Program Menghitung IP Semester
=====
Masukkan nilai Angka untuk MK Pancasila: 88
Masukkan nilai Angka untuk MK Konsep Teknologi Informasi: 78
Masukkan nilai Angka untuk MK CTPS: 69
Masukkan nilai Angka untuk MK Matematika Dasar: 95
Masukkan nilai Angka untuk MK Bahasa Inggris: 44
Masukkan nilai Angka untuk MK Dasar Pemrograman: 55
Masukkan nilai Angka untuk MK Praktikum Dasar Pemrograman: 67
Masukkan nilai Angka untuk MK K3: 78
=====
Mata Kuliah           Nilai    Huruf   Bobot
=====
Pancasila            88.00   A        4.00
Konsep Teknologi Informasi 78.00   B+       3.50
CTPS                 69.00   B        3.00
Matematika Dasar     95.00   A        4.00
Bahasa Inggris       44.00   D        1.00
Dasar Pemrograman    55.00   C        2.00
Praktikum Dasar Pemrograman 67.00   B        3.00
K3                   78.00   B+       3.50
=====
IP Semester: 3.00
=====
```

<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/array.java>

4. Fungsi



```
1 import java.util.Scanner;
2
3 public class nilai {
4     static Scanner sc = new Scanner(System.in);
5
6     static String[] namaMK = {
7         "Pancasila",
8         "Konsep Teknologi Informasi",
9         "CTPS",
10        "Matematika Dasar",
11        "Bahasa Inggris",
12        "Dasar Pemrograman",
13        "Praktikum Dasar Pemrograman",
14        "K3"
15    };
16
17    static int jumlahMK = namaMK.length;
18    static double[] nilaiMK = new double[jumlahMK];
19
20    public static String konversinilaiHuruf(double nilai) {
21        if (nilai > 80)
22            return "A";
23        else if (nilai > 73)
24            return "B+";
25        else if (nilai > 65)
26            return "B";
27        else if (nilai > 60)
28            return "C+";
29        else if (nilai > 50)
30            return "C";
31        else if (nilai > 39)
32            return "D";
33        else
34            return "E";
35    }
36
37    public static double bobotNilai(double nilai) {
38        if (nilai > 80)
39            return 4.0;
40        else if (nilai > 73)
41            return 3.5;
42        else if (nilai > 65)
43            return 3.0;
44        else if (nilai > 60)
45            return 2.5;
46        else if (nilai > 50)
47            return 2.0;
48        else if (nilai > 39)
49            return 1.0;
50        else
51            return 0.0;
52    }
53
54    public static void main(String[] args) {
55        System.out.println("=====");
56        System.out.println("Program Menghitung IP Semester");
57        System.out.println("=====");
58
59        for (int i = 0; i < jumlahMK; i++) {
60            System.out.print("Masukkan nilai Angka untuk MK " + namaMK[i] + ": ");
61            nilaiMK[i] = sc.nextDouble();
62        }
63
64        System.out.println("=====");
65        System.out.printf("%-30s %-10s %-10s\n", "Mata Kuliah", "Nilai", "Huruf", "Bobot");
66        System.out.println("=====");
67
68        double totalBobot = 0;
69        for (int i = 0; i < jumlahMK; i++) {
70            double bobot = bobotNilai(nilaiMK[i]);
71            String huruf = konversinilaiHuruf(nilaiMK[i]);
72            System.out.printf("%-30s %-10.2f %-10s %10.2f\n",
73                namaMK[i], nilaiMK[i], huruf, bobot);
74
75            totalBobot += bobot;
76        }
77
78        System.out.println("=====");
79        double ipSemester = totalBobot / jumlahMK;
80        System.out.printf("IP Semester: %.2f\n", ipSemester);
81        System.out.println("=====");
82    }
83 }
```

Total Pendapatan RoyalGarden 1: 1970000
Status: Sangat Baik

Total Pendapatan RoyalGarden 2: 1660000
Status: Sangat Baik

Total Pendapatan RoyalGarden 3: 1300000
Status: perlu evaluasi

Total Pendapatan RoyalGarden 4: 1535000
Status: Sangat Baik

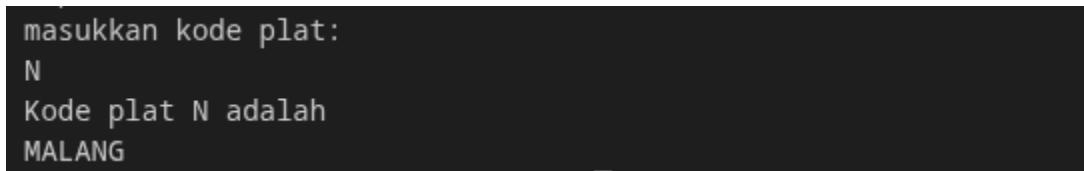
<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/fungsi.java>

Tugas

Soal 1



```
1 import java.util.Scanner;
2
3 public class platnomor {
4     static Scanner sc = new Scanner(System.in);
5
6     public static void main(String[] args) {
7         char kode[] = { 'A', 'B', 'D', 'E', 'F', 'G', 'H', 'L', 'N', 'T' };
8         char kota[][] = { { 'B', 'A', 'N', 'T', 'E', 'N' },
9                         { 'J', 'A', 'K', 'A', 'R', 'T', 'A' },
10                        { 'B', 'A', 'N', 'D', 'U', 'N', 'G' },
11                        { 'C', 'I', 'R', 'E', 'B', 'O', 'N' },
12                        { 'B', 'O', 'G', 'O', 'R' },
13                        { 'P', 'E', 'K', 'A', 'L', 'O', 'N', 'G', 'A', 'N' },
14                        { 'S', 'E', 'M', 'A', 'R', 'A', 'N', 'G' },
15                        { 'S', 'U', 'R', 'A', 'B', 'A', 'Y', 'A' },
16                        { 'M', 'A', 'L', 'A', 'N', 'G' },
17                        { 'T', 'E', 'G', 'A', 'L' } };
18     };
19     System.out.println("masukkan kode plat: ");
20     char inputKode = sc.next().charAt(0);
21     boolean found = false;
22     for (int i = 0; i < kode.length; i++) {
23         if (kode[i] == inputKode) {
24             found = true;
25             System.out.println("Kode plat " + inputKode + " adalah ");
26             for (int j = 0; j < kota[i].length; j++) {
27                 System.out.print(kota[i][j]);
28             }
29             System.out.println();
30         }
31     }
32     if (!found) {
33         System.out.println("Kode plat tidak ditemukan");
34     }
35 }
36 }
37 }
38 }
```



```
masukkan kode plat:
N
Kode plat N adalah
MALANG
```

<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/platnomor.java>

Soal 2

```
● ● ●
1 import java.util.Scanner;
2
3 public class Jadwal {
4     public static Scanner sc = new Scanner(System.in);
5
6     public static void cariMatkul(String[][] jadwal) {
7         System.out.print("masukkan mata kuliah yang ingin dicari: ");
8         String matkul = sc.nextLine();
9         boolean found = false;
10        System.out.println("=====");
11        System.out.printf("%-25s %-15s %-15s %-15s\n", "Mata Kuliah", "Ruang", "Hari", "Jam");
12        System.out.println("=====");
13        for (int i = 0; i < jadwal.length; i++) {
14            if (jadwal[i][0].equalsIgnoreCase(matkul)) {
15                found = true;
16                System.out.printf("%-25s %-15s %-15s %-15s\n",
17                                  jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);
18            }
19        }
20        if (!found) {
21            System.out.println("Mata kuliah tidak ditemukan");
22            return;
23        }
24    }
25
26    public static void cariHari(String[][] jadwal) {
27        System.out.print("masukkan hari yang ingin dicari: ");
28        String hari = sc.next();
29        boolean found = false;
30        System.out.println("=====");
31        System.out.printf("%-25s %-15s %-15s %-15s\n", "Mata Kuliah", "Ruang", "Hari", "Jam");
32        System.out.println("=====");
33        for (int i = 0; i < jadwal.length; i++) {
34            if (jadwal[i][2].equalsIgnoreCase(hari)) {
35                found = true;
36                System.out.printf("%-25s %-15s %-15s %-15s\n",
37                                  jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);
38            }
39        }
40        if (!found) {
41            System.out.println("Hari tidak ditemukan");
42        }
43    }
44
45    public static void outputTabel(String[][] jadwal) {
46        System.out.println("=====");
47        System.out.printf("%-25s %-15s %-15s %-15s\n", "Mata Kuliah", "Ruang", "Hari", "Jam");
48        System.out.println("=====");
49
50        for (int i = 0; i < jadwal.length; i++) {
51            System.out.printf("%-25s %-15s %-15s %-15s\n",
52                              jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);
53        }
54    }
55
56    public static String[][] inputjadwal() {
57        System.out.print("Masukkan jumlah jadwal: ");
58        int n = sc.nextInt();
59        sc.nextLine();
60
61        String[][] jadwal = new String[n][4];
62        for (int i = 0; i < n; i++) {
63            System.out.println("\nMasukkan jadwal ke-" + (i + 1));
64            System.out.print("Mata Kuliah : ");
65            jadwal[i][0] = sc.nextLine();
66            System.out.print("Ruang : ");
67            jadwal[i][1] = sc.nextLine();
68            System.out.print("Hari : ");
69            jadwal[i][2] = sc.nextLine();
70            System.out.print("Jam : ");
71            jadwal[i][3] = sc.nextLine();
72        }
73        return jadwal;
74    }
75
76    public static void main(String[] args) {
77        String[][] jadwal = inputjadwal();
78        outputTabel(jadwal);
79        cariMatkul(jadwal);
80        cariHari(jadwal);
81    }
82 }
83 }
```

```
Masukkan jumlah jadwal: 4
```

```
Masukkan jadwal ke-1
```

```
Mata Kuliah : matematika
```

```
Ruang      : rt5
```

```
Hari       : senin
```

```
Jam        : 7
```

```
Masukkan jadwal ke-2
```

```
Mata Kuliah : pasd
```

```
Ruang      : rt6
```

```
Hari       : selasa
```

```
Jam        : 8
```

```
Masukkan jadwal ke-3
```

```
Mata Kuliah : inggris
```

```
Ruang      : lpy2
```

```
Hari       : rabu
```

```
Jam        : 7
```

```
Masukkan jadwal ke-4
```

```
Mata Kuliah : ASD
```

```
Ruang      : rt3
```

```
Hari       : rabu
```

```
Jam        : 9
```

```
=====
```

Mata Kuliah	Ruang	Hari	Jam
-------------	-------	------	-----

```
=====
```

matematika	rt5	senin	7
------------	-----	-------	---

pasd	rt6	selasa	8
------	-----	--------	---

inggris	lpy2	rabu	7
---------	------	------	---

ASD	rt3	rabu	9
-----	-----	------	---

```
masukkan mata kuliah yang ingin dicari: pasd
```

```
=====
```

Mata Kuliah	Ruang	Hari	Jam
-------------	-------	------	-----

```
=====
```

pasd	rt6	selasa	8
------	-----	--------	---

```
masukkan hari yang ingin dicari: rabu
```

```
=====
```

Mata Kuliah	Ruang	Hari	Jam
-------------	-------	------	-----

```
=====
```

inggris	lpy2	rabu	7
---------	------	------	---

ASD	rt3	rabu	9
-----	-----	------	---

<https://github.com/dancelhal2000/jobsheet1-ASD/blob/main/Jadwal.java>