**LPORAN JOBSHEET 1**

**KONSEP DASAR PEMROGRAMAN**

Mata Kuliah : Algoritma dan Struktur Data

Dosen : **Mungki Astiningrum, S.T., M.Kom.**

****

**Ilham Dharma Atmaja**

**244107020220**

**Kelas : 1A**

**Absen : 14**

**PROGRAM STUDI TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG TAHUN 2025**

**2.1 PRAKTIKUM PEMILIHAN**

import java.util.Scanner;

public class KonsepDasarPemrograman14 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Masukan nilai tugas :");

double tugas = sc.nextDouble();

System.out.println("Masukan nilai Kuis :");

double kuis = sc.nextDouble();

System.out.println("Masukan nilai UTS :");

double Uts = sc.nextDouble();

System.out.println("Masukan nilai UAS :");

double Uas = sc.nextDouble();

if (tugas < 0 || tugas > 100 || kuis < 0 || kuis > 100 || Uts < 0 || Uts > 100 || Uas < 0 || Uas > 100) {

System.out.println("nilai tidak invalid");

} else {

double Nilaiakhir = (0.2 \* tugas) + (0.2 \* kuis) + (0.3 \* Uts) + (0.4 \* Uas);

String nilaihuruf;

if (Nilaiakhir > 80) {

nilaihuruf = "A";

} else if (Nilaiakhir > 73){

nilaihuruf = "B+";

} else if (Nilaiakhir > 65) {

nilaihuruf = "B";

} else if (Nilaiakhir > 60) {

nilaihuruf ="C+";

} else if (Nilaiakhir > 50 ) {

nilaihuruf = "C";

} else if (Nilaiakhir > 39) {

nilaihuruf = "D";

} else if (Nilaiakhir > 0) {

nilaihuruf = "E";

}

String status = (nilaiHuruf.equals("A") || nilaiHuruf.equals("B+") || nilaiHuruf.equals("B") || nilaiHuruf.equals("C+")) ? "LULUS" : "TIDAK LULUS";

System.out.println("Nilai Akhir: " + Nilaiakhir);

System.out.println("Nilai Huruf: " + nilaihuruf);

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

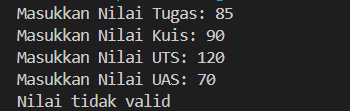
}

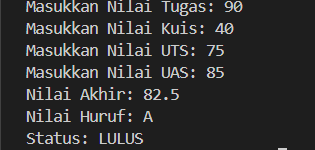
sc.close();

}

}

Output





**2.2 PERULANGAN**

import java.util.Scanner;

public class Perulangan14 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Masukan Nim: ");

        String nim = sc.next();

        int n = Integer.parseInt(nim.substring(nim.length() - 2));

        if (n < 10) {

            n += 10;

        }

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

        System.out.println("output: ");

        for (int i = 1; i <= n; i++) {

            if (i == 6 || i == 10) {

                continue;

            }

if (i % 2 == 0) {

                System.out.print(i + "");

            } else if (i % 2 == 1) {

                System.out.print( "\*");

            }

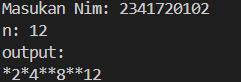
        }

        sc.close();

    }

}

Output



**2.3 ARRAY**

import java.util.Scanner;

public class Array14 {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Masukkan jumlah mata kuliah: ");

        int jumlahMK = scanner.nextInt();

        scanner.nextLine();

        String[] mataKuliah = new String[jumlahMK];

        double[] nilaiAngka = new double[jumlahMK];

        String[] nilaiHuruf = new String[jumlahMK];

        double[] bobotNilai = new double[jumlahMK];

        int[] sks = new int[jumlahMK];

        double totalBobot = 0;

        int totalSKS = 0;

        for (int i = 0; i < jumlahMK; i++) {

            System.out.print("Masukkan nama mata kuliah: ");

            mataKuliah[i] = scanner.nextLine();

            System.out.print("Masukkan nilai Angka untuk MK " + mataKuliah[i] + ": ");

            nilaiAngka[i] = scanner.nextDouble();

            System.out.print("Masukkan bobot SKS untuk MK " + mataKuliah[i] + ": ");

            sks[i] = scanner.nextInt();

            scanner.nextLine();

            if (nilaiAngka[i] >= 80) {

                nilaiHuruf[i] = "A";

                bobotNilai[i] = 4.0;

            } else if (nilaiAngka[i] >= 73) {

                nilaiHuruf[i] = "B+";

                bobotNilai[i] = 3.5;

            } else if (nilaiAngka[i] >= 65) {

                nilaiHuruf[i] = "B";

                bobotNilai[i] = 3.0;

            } else if (nilaiAngka[i] >= 60) {

                nilaiHuruf[i] = "C+";

                bobotNilai[i] = 2.5;

            } else if (nilaiAngka[i] >= 50) {

                nilaiHuruf[i] = "C";

                bobotNilai[i] = 2.0;

            } else if (nilaiAngka[i] >= 39) {

                nilaiHuruf[i] = "D";

                bobotNilai[i] = 1.0;

            } else {

                nilaiHuruf[i] = "E";

                bobotNilai[i] = 0.0;

            }

    }

}

**2.4 FUNGSI**

public class fungsi14 {

    public static void main(String[] args) {

        int[][] stokBunga = {

            {10, 5, 15, 7},

            {6, 11, 9, 12},

            {2, 10, 10, 5},

            {5, 7, 12, 9}

        };

        int[] hargaBunga = {75000, 50000, 60000, 10000};

        String[] cabangToko = {"RoyalGarden 1", "RoyalGarden 2", "RoyalGarden 3", "RoyalGarden 4"};

        System.out.println("Pendapatan setiap cabang jika semua bunga terjual:");

        for (int i = 0; i < stokBunga.length; i++) {

            int totalPendapatan = 0;

            for (int j = 0; j < stokBunga[i].length; j++) {

                totalPendapatan += stokBunga[i][j] \* hargaBunga[j];

            }

            System.out.printf("%s: Rp%,d\n", cabangToko[i], totalPendapatan);

        }

        int[] totalStok = new int[4];

        for (int i = 0; i < stokBunga.length; i++) {

            for (int j = 0; j < stokBunga[i].length; j++) {

                totalStok[j] += stokBunga[i][j];

            }

        }

        System.out.println("\nTotal stok setiap jenis bunga:");

        String[] jenisBunga = {"Aglonema", "Keladi", "Alocasia", "Mawar"};

        for (int i = 0; i < totalStok.length; i++) {

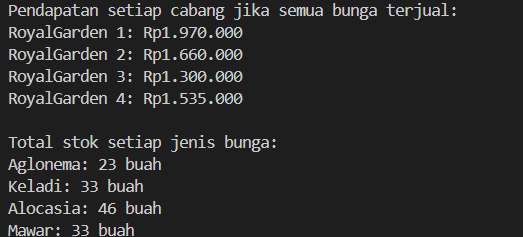
            System.out.printf("%s: %d buah\n", jenisBunga[i], totalStok[i]);

        }

    }

}

Output



**Tugas**

**1.**

import java.util.Scanner;

public class Platnomor14 {

    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("Masukkan kode plat nomor: ");

        char inputKode = scanner.next().toUpperCase().charAt(0);

        scanner.close();

        boolean ditemukan = false;

        for (int i = 0; i < kode.length; i++) {

            if (kode[i] == inputKode) {

                System.out.println("Kota untuk plat " + inputKode + " adalah " + kota[i]);

                ditemukan = true;

                break;

            }

        }

        if (!ditemukan) {

            System.out.println("Kode plat tidak ditemukan.");

        }

    }

}

Output



**2.**

**LINK GITHUB**

[**https://github.com/ianmen10/joobshet-1.git**](https://github.com/ianmen10/joobshet-1.git)