# **Laporan Praktikum**

Nama: Gegas Anugrah Derajat

Kelas/Absen: SIB 1F/11

NIM: 2341760140

# 1. Praktikum Pemilihan

### A. Membuat Class

```
J Pemilihan11.java
```

#### B. Mendeklarasikan variabel

```
Scanner gs = new Scanner(System.in);
int tugas, kuis, uts, uas;
double nilaiAkhir;
String statusLulus, konversiNilai;
```

## C. Memberikan input

```
System.out.println(x:"Program menghitung nilai akhir");
System.out.println(x:"==========");
System.out.print(s:"Masukkan nilai Tugas: ");
tugas = gs.nextInt();
System.out.print(s:"Masukkan nilai Kuis: ");
kuis = gs.nextInt();
System.out.print(s:"Masukkan nilai UTS: ");
uts = gs.nextInt();
System.out.print(s:"Masukkan nilai UAS: ");
uas = gs.nextInt();
```

### d. Membuat kalkulasi nilai

e. Hasil akhir

### 2. Praktikum Perulangan

a. Membuat class

```
J Perulangan11.java
```

b. Mendeklarasikan variabel

```
Scanner gs = new Scanner(System.in);
Long nim;
int n;
```

c. Memberikan input dan mencari 2 angka terakhir

```
System.out.print(s:"Masukkan NIM: ");
nim = gs.nextLong();
System.out.println(x:"=====""""""");

n = (int) (nim % 100);
System.out.println("n: " +n);
if (n < 10) {
    n += 10;
}</pre>
```

d. Membuat perulangan dengan angka ganjil menjadi \* dan angka 6 dan 10 dihilangkan

```
for (int i = 1; i <= n; i++) {
    if (i == 6 || i == 10) {
        continue;
    } else if (i % 2 == 0) {
        System.out.print(i + " ");
    } else {
        System.out.print(s:"* ");
    }
}</pre>
System.out.println();
```

e. Hasil akhir

- 3. Praktikum Array
- a. Membuat class

J Array11.java

b. Deklarasi variabel

```
import java.util.Scanner;

public class Array11 {
    static Scanner gs = new Scanner(System.in);
    static String matkul[][] = new String[8][5];
    static double ips, hitNilai, sks;
```

c. Memberikan input

d. Memberi bobot nilai yang telah di input

```
public static void tabelKonversi() {
    for (int i = 0; i < matkul.length; i++) {</pre>
        if (Double.valueOf(matkul[i][1]) > 80) {
            matkul[i][3] = "A";
           matkul[i][4] = "4.00";
         else if (Double.valueOf(matkul[i][1]) > 73) {
            matkul[i][3] = "B+";
            matkul[i][4] = "3.50";
         else if (Double.valueOf(matkul[i][1]) > 65) {
            matkul[i][3] = "B";
            matkul[i][4] = "3.00";
         else if (Double.valueOf(matkul[i][1]) > 60) {
            matkul[i][3] = "C+";
            matkul[i][4] = "2.50";
         else if (Double.valueOf(matkul[i][1]) > 50) {
            matkul[i][3] = "C";
            matkul[i][4] = "2.00";
          else if (Double.valueOf(matkul[i][1]) > 39) {
           matkul[i][3] = "D";
           matkul[i][4] = "1.00";
         else {
            matkul[i][3] = "E";
            matkul[i][4] = "1.00";
```

e. Membuat perhitungan IPS

```
public static void nilaiIp() {
    for (int i = 0; i < matkul.length; i++) {</pre>
       hitNilai += (Double.valueOf(matkul[i][4]) * Double.valueOf(matkul[i][2]));
        sks += Double.valueOf(matkul[i][2]);
    ips = hitNilai / sks;
```

f. Membuat tampilan hasil

```
ublic static void hasilAkhir() {
 System.out.println(x:"-----");
System.out.println(x:"Hasil Konversi Nilai");
System.out.println(x:"-----");
  .
System.out.println(x:"=======
System.out.println("IPS: " + ips);
```

g. Hasil akhir

```
Program Hitung IP Semester
Masukkan nilai MK Pancasila
                                                 : 88
Masukkan SKS MK Pancasila
                                                  : 3
Masukkan nilai MK Critical Thinking and Problem Solving: 88
Masukkan SKS MK Critical Thinking and Problem Solving: 3
Masukkan nilai MK Konsep teknologi Informasi
                                                 : 33
Masukkan SKS MK Konsep teknologi Informasi
                                                  : 2
Masukkan nilai MK Bahasa Inggris
                                                          : 33
Masukkan SKS MK Bahasa Inggris
                                                 : 2
Masukkan nilai MK Matematika Dasar
                                                 : 33
Masukkan SKS MK Matematika Dasar
                                                 : 2
Masukkan nilai MK Dasar pemrograman
                                                 : 33
Masukkan SKS MK Dasar pemrograman
                                                 : 2
Masukkan nilai MK Praktikum Dasar Pemrograman : 33
Masukkan SKS MK Praktikum Dasar Pemrograman
Masukkan nilai MK Keselamatan dan Kesehatan Kerja
                                                          : 33
Masukkan SKS MK Keselamatan dan Kesehatan Kerja: 2
Hasil Konversi Nilai
                                          Nilai Angka
                                                          Nilai Huruf
                                                                           Bobot NIlai
                                                                                            SKS
MK
Pancasila
                                                 88
                                                                                  4.00
Critical Thinking and Problem Solving
                                                                                                   3
                                                 88
                                                                  A
                                                                                  4.00
Konsep teknologi Informasi
                                                                                                   2 2
                                                 33
                                                                  E
                                                                                  1.00
Bahasa Inggris
                                                 33
                                                                  E
                                                                                  1.00
Matematika Dasar
                                                  33
                                                                                  1.00
Dasar pemrograman
Praktikum Dasar Pemrograman
                                                                                                   2
                                                 33
                                                                  E
                                                                                  1.00
                                                                                  1.00
                                                                                                   2 2
                                                 33
                                                                  E
Keselamatan dan Kesehatan Kerja
                                                 33
                                                                                  1.00
IPS: 2.0
```

### 4. Praktikum fungsi

#### A. Membuat class

## J Fungsi11.java

#### b. Deklarasi variabel

```
public class Fungsi11 {
    static Scanner gs = new Scanner(System.in);
    static String tokoBunga[][] = new String[4][5];
    static String bungaRusak[][] = new String[4][5];
    static int aglomena=75000, keladi=50000, alocasia=60000, mawar=10000;
     static String namaBunga[] = {"Aglonema", "Keladi \t", "Alocasia", "Mawar \t"};
    Run Debug
    public static void main(String[] args) {
         int pilihan = 0;
         tokoBunga[0][0] = "RoyalGarden 1";
         tokoBunga[0][1] = "10";
tokoBunga[0][2] = "5";
tokoBunga[0][3] = "15";
tokoBunga[0][4] = "7";
         tokoBunga[1][0] = "RoyalGarden 2";
         tokoBunga[1][1] = "6";
         tokoBunga[1][2] = "11";
tokoBunga[1][3] = "9";
         tokoBunga[1][4] = "12";
         tokoBunga[2][0] = "RoyalGarden 3";
         tokoBunga[2][1] = "2";
         tokoBunga[2][2] = "10";
tokoBunga[2][3] = "10";
tokoBunga[2][4] = "5";
         tokoBunga[3][0] = "RoyalGarden 4";
         tokoBunga[3][1] = "5";
         tokoBunga[3][2] = "7";
         tokoBunga[3][3] = "12";
         tokoBunga[3][4] = "9";
```

#### c. Membuat menu

```
while (true) {
    System.out.println();
    System.out.println(x:"1. Cek Pendapatan Sold Out Semua Cabang");
    System.out.println(x:"2. Cek Stok Cabang RoyalGarden 4");
    System.out.println(x:"3. Exit");

System.out.print(s:"Pilih (1/2/3) :");
    pilihan = 0;
    pilihan = gs.nextInt();
```

d. Fungsi hslPendapatan untuk melihat pendapatan setiap cabang

```
public static int[][] hslPendapatan(){
   int[][] income = new int[4][5];

for (int i=0; i<income.length; i++){
   income[i][0] = Integer.valueOf(tokoBunga[i][1]) * aglomena;
   income[i][1] = Integer.valueOf(tokoBunga[i][2]) * keladi;
   income[i][2] = Integer.valueOf(tokoBunga[i][3]) * alocasia;
   income[i][3] = Integer.valueOf(tokoBunga[i][4]) * mawar;
   income[i][3] = 0;
}</pre>
```

e.Fungsi tmbhStok untuk update stok bunga

```
public static int[][] hslPendapatan(){
  int[][] income = new int[4][5];

for (int i=0; i<income.length; i++){
  income[i][0] = Integer.valueOf(tokoBunga[i][1]) * aglomena;
  income[i][1] = Integer.valueOf(tokoBunga[i][2]) * keladi;
  income[i][2] = Integer.valueOf(tokoBunga[i][3]) * alocasia;
  income[i][3] = Integer.valueOf(tokoBunga[i][4]) * mawar;
  income[i][3] = 0;
}</pre>
```

f. Fungsi data untuk menampilkan pendapatan setiap cabang dan stok untuk melihat stok setiap cabang

```
public static void data(int[][] income)[]
    System.out.println(x: "tr\t\t Aglonema \t Keladi \t Alocasia \t Mawar \t Total");
    for (int i=0; itckoBunga.length; i++){
        System.out.println(tokoBunga[i][0] + "\t\t"+income[i][0]+" \t "+income[i][1]+" \t "+income[i][2]+" \t "+income[i][3]+"\t" + (income[i][0]+income[i][1]
        public static void stok(){
        System.out.println();
        System.out.println
```

# g. Hasil akhir

- Cek Pendapatan Sold Out Semua Cabang
   Cek Stok Cabang RoyalGarden 4
   Exit

Pilih (1/2/3) :1

	Aglonema	Keladi	Alocasia	Mawar	Total
RoyalGarden 1	750000	250000	900000	0	1900000
RoyalGarden 2	450000	550000	540000	0	1540000
RoyalGarden 3	150000	500000	600000	0	1250000
RoyalGarden 4	375000	350000	720000	0	1445000

- Cek Pendapatan Sold Out Semua Cabang
   Cek Stok Cabang RoyalGarden 4

3. Exit Pilih (1/2/3) :2

Toko Bunga RoyalGarden 4

Jenis	Stok Awal	Rusak/Mati	Stok Akhir
Aglonema	5	1	4
Keladi	7	2	5
Alocasia	12	0	12
Mawar	9	5	4

- 1. Cek Pendapatan Sold Out Semua Cabang
- 2. Cek Stok Cabang RoyalGarden 4

2. CEK Stock Cabaing RoyaldardEH 4
3. Exit
Pilih (1/2/3) :3
PS C:\Users\Pongo\Documents\Kuliah\smstr2\alg&stkdat\jobsheet\jobsheet1>