# THE WALL OF THE PARTY OF THE PA

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Laporan Jobsheet 1

Praktikum Algoritma dan Struktur Data

Minggu ke-1 (Jumat, 18 Februari 2022)

### 1. JS1 – Pemilihan

```
import java.util.Scanner;
      public class JSlPemilihan(
public static wold motor
             public static void main(String[] args) {
                Scanner ac - new Scanner (System.in) ;
                 double nilaiAkhir;
                String nilaiHuruf;
                System.out.println():
                                          ---- PROGRAM MENGHITUNG NILAI AKHIR -----"):
8
                System.out.println("-
                System.out.println();
10
                System.out.print("Masukkan Nilai Tugas: ");
11
                int tugas = sc.nextInt();
12
                System.out.print("Masukkan Nilai UTS: ");
13
                int uts = sc.nextInt();
14
                System.out.print("Masukkan Nilai UAS: ");
15
                 int uas = sc.nextInt();
                System.out.println("
16
17
                nilaiAkhir = ((0.2*tugas)+(0.35*uts)+(0.45*uas));
18
                System.out.println();
                System.out.println("Nilsi Akhir: " + nilsiAkhir);
19
20
      中
                if(nilaiAkhir > 80 as nilaiAkhir <= 100) {
21
                    nilaiHuruf = "A";
                     System.out.println("Nilai Huruf: " + nilaiHuruf);
22
23
                 } else if(nilaiAkhir>73 && nilaiAkhir<=80){
24
                     nilaiHuruf - "B+";
25
                     System.out.println("Nilai Huruf: " + nilaiHuruf);
26
                 } else if(nilaiAkhir>65 as nilaiAkhir<=73){
                     nilaiHuruf = "B";
28
                     System.out.println("Nilai Huruf: " + nilaiHuruf);
29
                 } else if(nilaiAkhir>60 && nilaiAkhir<=65){
30
                     nilaiHuruf = "C+";
31
                     System.out.println("Nilai Huruf: " + nilaiHuruf);
32
                 } else if(nilaiAkhir>50 && nilaiAkhir<=60){
33
                    nilaiHuruf = "C";
                     System.out.println("Nilai Huruf: " + nilaiHuruf);
34
35
                 } else if(nilaiAkhir>39 && nilaiAkhir<=50){
36
                     nilaiHuruf = "D";
                     System.out.println("Nilsi Huruf: " + nilsiHuruf);
37
38
                 } else{
39
                     nilaiHuruf - ("E"):
                     System.out.println("Nilsi Huruf: " + nilsiHuruf);
40
41
42
                                                                                       ");
                System.out.println("
43
                System.out.println();
44
                if(nilaiHuruf.equals("D") || nilaiHuruf.equals("E")){
      白
                    System.out.println("Status : TIDAK LULUS");
45
46
                 } else{
47
                     System.out.println("Status : LULUS");
48
49
                System.out.println();
50
                 System.out.println("
51
       L,
52
```

```
E:\MARIA FADILLA>java JS1Pemilihan.java

======= PROGRAM MENGHITUNG NILAI AKHIR =======

Masukkan Nilai Tugas: 90

Masukkan Nilai UTS: 90

Masukkan Nilai UAS: 90

————————

Nilai Akhir: 90.0

Nilai Huruf: A

——————————

Status : LULUS
```

# 2. JS1 – Perulangan

```
import java.util.Scanner;
      public class JS1Perulangan{
            public static void main(String[] args) {
               int nim, hari;
                long hasil;
6
               Scanner sc = new Scanner(System.in);
               System.out.println();
               System.out.println("======= PROGRAM PERULANGAN HARI =======");
8
9
                System.out.println();
10
               System.out.print("Masukkan NIM: ");
11
               hasil = sc.nextInt();
12
               System.out.println("=
13
                nim = (int) (hasil % 100);
14
               if (nim < 10) {
      ₽
15
                    System.out.println(nim += 10);
16
                } else {
17
                    System.out.println("n : " + nim);
18
19
20
               hari = 0;
21
                for (int i = 0; i < nim; i++) {
      中
22
                   hari++;
                   if (hari >= 7) {
23
      中
24
                        hari = 0;
      25
                   if (hari % 7 == 0) {
26
27
                       System.out.print("Minggu ");
28
                   } else if (hari % 6 == 0) {
29
                       System.out.print("Sabtu ");
30
                    } else if (hari % 5 == 0) {
31
                       System.out.print("Jumat ");
32
                    } else if (hari % 4 == 0) {
33
                       System.out.print("Kamis ");
34
                    } else if (hari % 3 == 0) {
35
                       System.out.print("Rabu ");
36
                    } else if (hari % 2 == 0) {
37
                       System.out.print("Selasa ");
38
                    } else {
39
                        System.out.print("Senin ");
40
41
42
                System.out.println();
43
```

# 3. JS1 - Array

```
public class JS1Array{
           public static void main(String[] args) {
                System.out.println();
                                                === PRAKTIKUM ARRAY ===
                 System.out.println("==
                 System.out.println();
                System.out.println("--- Toko Bunga Royale Garden ---");
                int[][] bunga = {
                          {10, 5, 15, 7},
                          {6, 11, 9, 12},
                          {2, 10, 10, 5},
12
13
                int algonema = 0, keladi = 0, alocasia = 0, mawar = 0, pendapatan;
14
                 for (int i = 0; i < 4; i++) {
                     for (int j = 0; j < 4; j++) {
15
                         if (j == 0) {
16
                              algonema += bunga[i][j];
                          } else if (j == 1) {
18
                              keladi += bunga[i][j];
19
20
                         } else if (j == 2) {
21
                              alocasia += bunga[i][j];
22
                          } else {
23
                              mawar += bunga[i][j];
24
25
26
27
                System.out.println("| Jumlah Bunga di Seluruh Cabang |");
System.out.println("| Jumlah Bunga Algonema: " + algonema + "\t |");
System.out.println("| Jumlah Bunga Keladi : " + keladi + "\t |");
System.out.println("| Jumlah Bunga Alocasia: " + alocasia + "\t |");
28
29
30
31
                System.out.println("| Jumlah Bunga Mawar : " + mawar + "\t |");
32
33
                System.out.println("
34
                System.out.println();
                System.out.println("=> Total Pendapatan Royale Gareden 1 \n Jika Semua Bunga Terjual Habis : Rp " + pendapatan);
35
```

# 4. JS1 – Fungsi

```
import java.util.Scanner;
          public class JS1Fungsi{
             static int total;
              static int stokBunga [][] = {
5
                 {10,5,15,7},
                  {6,11,9,12},
                 {2,10,10,5},
8
                 {5,7,12,9}
9
             3:
10
          public static void main(String[] args) {
11
             System.out.println();
                                            12
             System.out.println("=
13
             System.out.println();
14
             String bunga[]={"Aglonema", "Keladi", "Alocasia", "Mawar"};
15
             String toko[]={"Royal Garden 1", "Royal Garden 2", "Royal Garden 3", "Royal Garden 4"};
16
             System.out.println("\t\t | "+ bunga[0]+"\t|
                                                            "+ bunga[1]+"\t|
                                                                               "+ bunga[2]+"\t|
                                                                                                   "+ bunga[3]);
17
             printtabel(toko,stokBunga);
18
              System.out.println("=
19
              System.out.println("\t\t\t\tJumlah Stok Bunga");
20
              System.out.println("====
21
              System.out.println(bunga[0]+" : "+printstok(0));
22
              System.out.println(bunga[1]+" : "+printstok(1));
              System.out.println(bunga[2]+" : "+printstok(2));
23
              System.out.println(bunga[3]+" : "+printstok(3));
24
25
              System.out.println("_
26
27
          public static void printtabel(String array[], int jumlah[][]) {
28
              for(int i=0;i<4;i++){
                 System.out.print(array[i]+" |"+" ");
29
30
                  for(int j=0;j<4;j++){
31
                    System.out.print("\t"+jumlah[i][j]+"\t|");
32
33
                 System.out.println();
34
35
36
          public static int printstok(int x) {
37
            total=0;
38
              for(int j=0;j<stokBunga[0].length;j++){</pre>
39
                 total += stokBunga[j][x];
40
41
              return total;
42
43
```

```
E:\MARIA FADILLA>java JS1Fungsi
----- PRAKTIKUM FUNGSI -----
              Aglonema
                         Keladi
                                    Alocasia
                                               Mawar
Royal Garden 1
                10
                                      15
Royal Garden 2
                                      9
Royal Garden 3
                2
                           10
                                      10
Royal Garden 4
                                      12
                                                 g
                     Jumlah Stok Bunga
Aglonema : 23
Keladi : 33
Alocasia : 46
Mawar
```

# 5. JS1 - Tugas 1

a. Kode Program

```
public class JS1Tugas1{
         public static void main(String[] args) {
             System.out.println();
4
             System.out.println("======== PRAKTIKUM TUGAS 1 ========");
5
             System.out.println();
              int ani=4, budi=15, bina=6, cita=11;
6
              double totalPendapatan;
8
              totalPendapatan = (4*4500)+(15*4500*0.05)+(6*4500)+(11*4500*0.05);
9
                 System.out.println("Pendapatan Smile Laundry : Rp "+ totalPendapatan);
                  System.out.println("
11
                 System.out.println();
12
                 System.out.println("Dengan Rincian:");
                 System.out.println("Ani : Rp " + 4*4500 );
System.out.println("Budi : Rp " + (15*4500 *0.05));
13
14
                  System.out.println("Bina : Rp " + 6*4500);
15
16
                  System.out.println("Cita : Rp " + (11*4500*0.05));
                  System.out.println("
                                                                                 ");
17
18
19
```

### b. Hasil Running

## 6. JS1 - Tugas 2

```
import java.util.Scanner;
     public class JS1Tugas2{
           public static void main(String[] args){
               int menu;
 5
               double v. s. t;
               do {
 6
                   Scanner sc = new Scanner(System.in);
8
                   System.out.println();
                                             ======= PRAKTIKUM TUGAS 2 ========
9
                   System.out.println("=
                   System.out.println();
                   System.out.println("---- Menghittung Kecepatan - Jarak - Waktu ----");
11
                   System.out.println("Pilih Menu : ");
12
                   System.out.println("1. Rumus Kecepatan");
13
                   System.out.println("2. Rumus Jarak");
14
                   System.out.println("3. Rumus Waktu");
15
                   System.out.println("4. Quit");
16
17
                   System.out.print("Pilihan Menu (1/2/3/4) : ");
18
                   menu = sc.nextInt();
19
                   System.out.println();
20
                   switch (menu) {
21
                       case 1 : {
22
                           System.out.println("Menu 1. Perhitungan Rumus Kecepatan");
23
                           kecepatan();
24
                       !break:
25
                       case 2 : {
26
                           System.out.println("Menu 2. Perhitungan Rumus Jarak");
27
                           jarak();
28
                       !break:
29
                       case 3 : {
30
                           System.out.println("Menu 3. Perhitungan Rumus Waktu");
31
                           waktu():
32
                       }break;
33
                       case 4 : {
                          System.out.println("Menu 4. QUIT - Terimakasih^^");
34
35
                       !break:
     中
36
                       default : {
                          System.out.println("Maaf Input Menu Anda Salah!");
37
38
39
               }while(menu > 0 && menu < 3);</pre>
40
41
42
43
           private static void kecepatan(){
44
               double v, s, t, hasil;
               Scanner sc = new Scanner(System.in);
45
46
               System.out.print("Masukkan jarak (km)\t
47
               s = sc.nextDouble();
48
               System.out.print("Masukkan waktu (jam)\t
49
               t = sc.nextDouble();
50
               System.out.print("=> Kecepatan Yang Dihasilkan : " + hasil + (" km/jam") );
51
52
               System.out.println();
53
54
           private static void jarak() {
55
               double v, s, t, hasil;
Scanner sc = new Scanner(System.in);
56
57
58
               System.out.print("Masukkan Kecepatan (km/jam) : ");
59
               v = sc.nextDouble();
60
               System.out.print("Masukkan waktu (jam)\t : ");
61
               t = sc.nextDouble();
62
               hasil = v*t;
               System.out.println("=> Jarak Yang Ditempuh\t
                                                                : " + hasil + " km");
63
64
               System.out.println();
65
66
67
            private static void waktu() {
68
               double v, s, t, hasil;
69
               Scanner sc = new Scanner(System.in);
70
               System.out.print("Masukkan jarak (km)\t
71
               s = sc.nextDouble();
72
               System.out.print("Masukkan kecepatan (km/jam) : ");
73
               v = sc.nextDouble();
74
               hasil = s/v;
75
               System.out.println("=> Waktu Yang Ditempuh\t
                                                               : " + hasil + " jam");
76
               System.out.println();
```

### - Menu 1. Menghitung Kecepatan

```
E:\MARIA FADILLA>java JS1Tugas2.java

----- Menghittung Kecepatan - Jarak - Waktu -----
Pilih Menu :

1. Rumus Kecepatan

2. Rumus Jarak

3. Rumus Waktu

4. Quit
Pilihan Menu (1/2/3/4) : 1

Menu 1. Perhitungan Rumus Kecepatan

Masukkan jarak (km) : 8

Masukkan waktu (jam) : 2

=> Kecepatan Yang Dihasilkan : 4.0 km/jam
```

# - Menu 2. Menghitung Jarak

```
----- Menghittung Kecepatan - Jarak - Waktu -----
Pilih Menu :

1. Rumus Kecepatan

2. Rumus Jarak

3. Rumus Waktu

4. Quit
Pilihan Menu (1/2/3/4) : 2

Menu 2. Perhitungan Rumus Jarak
Masukkan Kecepatan (km/jam) : 4
Masukkan waktu (jam) : 2

=> Jarak Yang Ditempuh : 8.0 km
```

### - Menu 3. Menghitung Waktu

# - Menu 4. Quit (keluar dari program)

```
----- Menghittung Kecepatan - Jarak - Waktu -----
Pilih Menu :
1. Rumus Kecepatan
2. Rumus Jarak
3. Rumus Waktu
4. Quit
Pilihan Menu (1/2/3/4) : 4
Menu 4. QUIT - Terimakasih^^
```