

## **LAPORAN JOBSHEET 1**

### **INSTALASI JAVA NETBEANS DAN IMPLEMENTASINYA PADA KONSEP DASAR PEMROGRAMAN**



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## Pemilihan

### Kode Program:

```
1 import java.util.Scanner;
2 public class pemilihan{
3     public static void main(String []args){
4         Scanner sc = new Scanner (System.in);
5         System.out.println("PROGRAM MENGHITUNG NILAI AKHIR MAHASISWA");
6         System.out.println("=====");
7         System.out.print("Masukkan nilai tugas: ");
8         int tugas = sc.nextInt();
9         System.out.print("Masukkan nilai UTS: ");
10        int uts = sc.nextInt();
11        System.out.print("Masukkan nilai UAS: ");
12        int uas = sc.nextInt();
13        System.out.println("=====");
14        System.out.println("=====");
15        double nilaiAkhir = 0.2*tugas + 0.45*uas + 0.35*uts;
16        System.out.println("Nilai Akhir mahasiswa: "+ nilaiAkhir);
17        String nilaiHuruf= new String();
18        if(nilaiAkhir>80 && nilaiAkhir<=100){
19            nilaiHuruf= "A";
20            System.out.println("Nilai Huruf: "+ nilaiHuruf);
21        }else if(nilaiAkhir>73 && nilaiAkhir<=80){
22            nilaiHuruf= "B+";
23            System.out.println("Nilai Huruf: "+ nilaiHuruf);
24        }else if(nilaiAkhir>65 && nilaiAkhir<=73){
25            nilaiHuruf= "B";
26            System.out.println("Nilai Huruf: "+ nilaiHuruf);
27        }else if(nilaiAkhir>60 && nilaiAkhir<=65){
28            nilaiHuruf= "C+";
29            System.out.println("Nilai Huruf: "+ nilaiHuruf);
30        }else if(nilaiAkhir>50 && nilaiAkhir<=60){
31            nilaiHuruf= "C";
32            System.out.println("Nilai Huruf: "+ nilaiHuruf);
33
34        }else if(nilaiAkhir>39 && nilaiAkhir<=50){
35            nilaiHuruf= "D";
36            System.out.println("Nilai Huruf: "+ nilaiHuruf);
37        }else if(nilaiAkhir<=39){
38            nilaiHuruf= "E";
39            System.out.println("Nilai Huruf: "+ nilaiHuruf);
40        }
41        System.out.println("=====");
42        if(nilaiHuruf.equals("D") || nilaiHuruf.equals("E")){
43            System.out.println("Maaf Tidak Lulus");
44        }else{
45            System.out.println("SELAMAT LULUS");
46        }
47    }
48 }
```

### Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java pemilihan
PROGRAM MENGHITUNG NILAI AKHIR MAHASISWA
=====
Masukkan nilai tugas: 85
Masukkan nilai UTS: 60
Masukkan nilai UAS: 82
=====
Nilai Akhir mahasiswa: 74.9
Nilai Huruf: B+
=====
SELAMAT LULUS

C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>
```

## Perulangan

Kode Program:

```
1  import java.util.Scanner;
2  public class perulangan{
3      public static void main(String[] args){
4          Scanner sc= new Scanner(System.in);
5          System.out.print("Masukkan NIM: ");
6          String hari;
7          int x=1;
8          int nim = sc.nextInt();
9          System.out.println("=====");
10         System.out.print("Nilai n (2 digit terakhir NIM Anda): ");
11         int n = sc.nextInt();
12         if (n<10){
13             n+=10;
14         }
15
16         for(int i=1;i<=n;i++){
17             if(x==1){
18                 hari = "Senin";
19                 System.out.print(" "+hari);
20                 x++;
21             }else if(x==2){
22                 hari = "Selasa";
23                 System.out.print(" "+hari);
24                 x++;
25             }else if(x==3){
26                 hari = "Rabu";
27                 System.out.print(" "+hari);
28                 x++;
29             }else if(x==4){
30                 hari = "Kamis";
31                 System.out.print(" "+hari);
32                 x++;
33
34             }else if(x==5){
35                 hari = "Jumat";
36                 System.out.print(" "+hari);
37                 x++;
38             }else if(x==6){
39                 hari = "Sabtu";
40                 System.out.print(" "+hari);
41                 x++;
42             }else{
43                 hari = "Minggu";
44                 System.out.print(" " +hari);
45                 x = 1;
46             }
47         }
48     }
```

Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java perulangan
Masukkan Nim: 201234501
=====
Nilai n (2 digit terakhir NIM Anda) = 01
  Senin Selasa Rabu Kamis Jumat Sabtu Minggu Senin Selasa Rabu Kamis
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>
```

## Array

### Kode Program:

```
1  import java.util.Scanner;
2  public class Array{
3      public static void main(String []args){
4          int jumAglonema=0, jumAlocasia=0, jumKeladi=0, jumMawar=0;
5          int stock[][] ={{10, 5, 15, 7},
6                          {6, 11, 9, 12},
7                          {2, 10, 10, 5},
8                          {5, 7, 12, 9},
9                          };
10         //mencari jumlah stock bunga
11         for(int i =0; i<stock.length; i++){
12             for(int j =0; j<stock[0].length; j++){
13                 if(j==0){
14                     jumAglonema+=stock[i][j];
15                 }else if(j==1){
16                     jumKeladi+=stock[i][j];
17                 }else if(j==2){
18                     jumAlocasia+=stock[i][j];
19                 }else if(j==3){
20                     jumMawar+=stock[i][j];
21                 }
22             }
23         }
24         System.out.println("Jumlah Stock Aglonema: "+jumAglonema);
25         System.out.println("Jumlah Stock Keladi: "+jumKeladi);
26         System.out.println("Jumlah Stock Alocasia: "+jumAlocasia);
27         System.out.println("Jumlah Stock Mawar: "+jumMawar);
28
29         //menghitung pendapatan
30         int totalPendapatan=75000*(stock[0][0]-1) + 50000*(stock[0][1]-2)+ 60000*(stock[0][2]-0) + 10000*(stock[0][3]-5);
31         System.out.println("=====");
32         System.out.println("Pendapatan RoyalGarden 1");
33
34         System.out.println("=====");
35         System.out.println("Total pendapatan: "+totalPendapatan);
36     }
```

### Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java Array.java
Jumlah Stock Aglonema: 23
Jumlah Stock Keladi: 33
Jumlah Stock Alocasia: 46
Jumlah Stock Mawar: 33
=====
Pendapatan RoyalGarden 1
=====
Total pendapatan: 1745000
```

## Fungsi

### Kode Program:

```
1 public class fungsi{
2     public static void main(String []args){
3         String cabangToko[] = {"RoyalGarden1", "RoyalGarden2", "RoyalGarden3", "RoyalGarden4"};
4         String namaBunga[] = {"Aglonema", "Keladi", "Alocasia", "Mawar"};
5         int stock[][] = {{10, 5, 15, 7},
6                          {6, 11, 9, 12},
7                          {2, 10, 10, 5},
8                          {5, 7, 12, 9},
9                          };
10        tampilArray(cabangToko, namaBunga, stock);
11        hitungStock(cabangToko, namaBunga, stock);
12    }
13    static void tampilArray(String[]arrToko, String[]arrBunga, int[][]arrStock){
14        System.out.println("");
15        System.out.println("\t\t\t\t\tA. ARRAY STOCK BUNGA");
16        System.out.println("");
17        System.out.println(
18            "-----");
19        System.out.print(" ");
20        for(int j=0; j<4; j++){
21            System.out.print("\t\t\t"+arrBunga[j]+ " ");
22        }
23        System.out.println("\t\t\t\t");
24        System.out.print(
25            "-----");
26        for(int i=0; i<4; i++){
27            System.out.println("");
28            System.out.println(arrToko[i] + "\t\t\t" + arrStock[i][0] + "\t\t\t\t" + arrStock[i][1] + "\t\t\t\t" + arrStock[i][2] +
29                "\t\t\t\t" + arrStock[i][3] + "\t\t\t\t");
30            System.out.print(
31                "-----");
32        }
33        System.out.println("");
34    }
35    static void hitungStock(String[]arrNato, String[]arrNabu, int[][]arrJum){
36        System.out.println("");
37        System.out.println("\t\t\t\t\tB. JUMLAH STOCK SESUAI JENIS BUNGA SELURUH CABANG ");
38        System.out.println("");
39        System.out.println(
40            "-----");
41        System.out.print(" ");
42        for(int j=0; j<4; j++){
43            System.out.print("\t\t\t"+arrNabu[j]+ " ");
44        }
45        System.out.println("\t\t\t\t");
46        System.out.print("");
47        System.out.println(
48            "-----");
49        for(int i=0; i<4; i++){
50            if (i==0){
51                arrJum[0][0]-=1;
52                arrJum[0][1]-=2;
53                arrJum[0][2]-=0;
54                arrJum[0][3]-=5;
55            }
56            System.out.print(" ");
57            System.out.println(arrNato[i] + "\t\t\t" + arrJum[i][0] + "\t\t\t\t" + arrJum[i][1] + "\t\t\t\t" + arrJum[i][2] +
58                "\t\t\t\t" + arrJum[i][3] + "\t\t\t\t");
59            System.out.println(
60                "-----");
61        }
62        int jum1=0, jum2=0, jum3=0, jum4=0;
63        for(int i =0; i<arrJum.length; i++){
64            for(int j =0; j<arrJum[0].length; j++){
65                if(j==0){
66                    jum1+=arrJum[i][j];
67                }else if(j==1){
68                    jum2+=arrJum[i][j];
69                }else if(j==2){
70                    jum3+=arrJum[i][j];
71                }else if(j==3){
72                    jum4+=arrJum[i][j];
73                }
74            }
75        }
76        System.out.println(" Jumlah " + "\t\t\t" + jum1+ "\t\t\t\t" + jum2 + "\t\t\t\t" + jum3 + "\t\t\t\t" + jum4 + "\t\t\t\t");
77        System.out.print(
78            "-----");
79    }
80 }
```

Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java fungsi.java

A. ARRAY STOCK BUNGA

-----
|      Aglonema      |      Keladi      |      Alocasia      |      Mawar      |
-----
RoyalGarden1 |      10      |      5      |      15      |      7      |
-----
RoyalGarden2 |      6      |      11      |      9      |      12      |
-----
RoyalGarden3 |      2      |      10      |      10      |      5      |
-----
RoyalGarden4 |      5      |      7      |      12      |      9      |
-----

B. JUMLAH STOCK SESUAI JENIS BUNGA SELURUH CABANG

-----
|      Aglonema      |      Keladi      |      Alocasia      |      Mawar      |
-----
RoyalGarden1 |      9      |      3      |      15      |      2      |
-----
RoyalGarden2 |      6      |      11      |      9      |      12      |
-----
RoyalGarden3 |      2      |      10      |      10      |      5      |
-----
RoyalGarden4 |      5      |      7      |      12      |      9      |
-----
Jumlah      |      22      |      31      |      46      |      28      |
-----

C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>
```

## Tugas 1

### Kode Program:

```
1  import java.util.Scanner;
2  public class Tugas1{
3      public static void main(String []args){
4          Scanner sc = new Scanner(System.in);
5          System.out.println("\tPendapatan Smile Laundry");
6          System.out.print("=====");
7          double totPemasukan=0;
8          for(int i=0; i<4; i++){
9              System.out.println("");
10             System.out.print("Nama Customer " + (i+1) + "\t\t\t:");
11             String nama = sc.next();
12             System.out.print("Berat pakaian (kg)\t\t:");
13             int beratLaundry = sc.nextInt();
14
15             double hasilDiskon= hargaDiskon(beratLaundry);
16             System.out.println("Biaya Laundry Customer " + (i+1)+ "\t:"+"hasilDiskon");
17             totPemasukan+=hasilDiskon;
18         }
19         System.out.println("=====");
20         System.out.println("Total Pendapatan\t\t:"+"totPemasukan");
21         System.out.println("=====");
22     }
23     static double hargaDiskon(int a){
24         double diskon=0;
25         if(a>10){
26             diskon=0.05;
27         }
28         double hasil= (4500*a)-(diskon*4500*a);
29         return hasil;
30     }
31 }
```

### Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java Tugas1
Pendapatan Smile Laundry
=====
Nama Customer 1          :Ani
Berat pakaian (kg)       :4
Biaya Laundry Customer 1 :18000.0

Nama Customer 2          :Budi
Berat pakaian (kg)       :15
Biaya Laundry Customer 2 :64125.0

Nama Customer 3          :Bina
Berat pakaian (kg)       :6
Biaya Laundry Customer 3 :27000.0

Nama Customer 4          :Cita
Berat pakaian (kg)       :11
Biaya Laundry Customer 4 :47025.0
=====
Total Pendapatan        :156150.0
=====
```

## Tugas 2

### Kode Program:

```
1  import java.util.Scanner;
2  public class Tugas2{
3      public static void main(String []args){
4          Scanner sc = new Scanner(System.in);
5          menu();
6      }
7      static void menu(){
8          Scanner sc = new Scanner(System.in);
9          System.out.println(" ");
10         System.out.println("=====");
11         System.out.println("\tPROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU");
12         System.out.println("=====");
13         System.out.println("Pilih menu rumus yang akan dihitung ");
14         System.out.println("1. Menghitung Kecepatan ");
15         System.out.println("2. Menghitung Jarak ");
16         System.out.println("3. Menghitung Waktu ");
17         System.out.println("4. Keluar ");
18         System.out.print("Masukkan pilihan menu dengan angka 1-3: ");
19         int pilihMenu = sc.nextInt();
20         if(pilihMenu==1){
21             kecepatan();
22         }else if(pilihMenu==2){
23             jarak();
24         }else if(pilihMenu==3){
25             waktu();
26         }else if(pilihMenu==4){
27
28         }else{
29             System.out.println("Maaf angka yang anda inputkan salah");
30             menu();
31         }
32     }
33     static void kecepatan(){
34         Scanner sc = new Scanner(System.in);
35         System.out.println(" ");
36         System.out.println("PROGRAM MENGHITUNG KECEPATAN");
37         System.out.println("=====");
38         System.out.print("Masukkan jarak(m): ");
39         double s = sc.nextDouble();
40         System.out.print("Masukkan waktu(s): ");
41         double t = sc.nextDouble();
42         double hasilKecepatan= s/t;
43         System.out.println("=====");
44         System.out.println("Kecepatan: "+hasilKecepatan + " m/s");
45         menu();
46         System.out.println("");
47     }
48     static void jarak(){
49         Scanner sc = new Scanner(System.in);
50         System.out.println(" ");
51         System.out.println("PROGRAM MENGHITUNG JARAK");
52         System.out.println("=====");
53         System.out.print("Masukkan kecepatan(m/s): ");
54         double v = sc.nextDouble();
55         System.out.print("Masukkan waktu(s): ");
56         double t = sc.nextDouble();
57         double hasilJarak= v*t;
58         System.out.println("=====");
59         System.out.println("Jarak: "+hasilJarak+ " m");
60         menu();
61         System.out.println("");
62     }
63     static void waktu(){
64         Scanner sc = new Scanner(System.in);
65
66         System.out.println(" ");
67         System.out.println("PROGRAM MENGHITUNG WAKTU");
68         System.out.println("=====");
69         System.out.print("Masukkan jarak(m): ");
70         double s = sc.nextDouble();
71         System.out.print("Masukkan kecepatan(m/s): ");
72         double v = sc.nextDouble();
73         double hasilWaktu= s/v;
74         System.out.println("=====");
75         System.out.println("Waktu: "+hasilWaktu + " s");
76         menu();
77         System.out.println("");
78     }
79 }
```



## Output:

```
C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>java Tugas2

=====
PROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU
=====
Pilih menu rumus yang akan dihitung
1. Menghitung Kecepatan
2. Menghitung Jarak
3. Menghitung Waktu
4. Keluar
Masukkan pilihan menu dengan angka 1-3: 1

PROGRAM MENGHITUNG KECEPATAN
=====
Masukkan jarak(m): 100
Masukkan waktu(s): 8
=====
Kecepatan: 12.5 m/s

=====
PROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU
=====
Pilih menu rumus yang akan dihitung
1. Menghitung Kecepatan
2. Menghitung Jarak
3. Menghitung Waktu
4. Keluar
Masukkan pilihan menu dengan angka 1-3: 2

PROGRAM MENGHITUNG JARAK
=====
Masukkan kecepatan(m/s): 40
Masukkan waktu(s): 2.5
=====
Jarak: 100.0 m
```

```
=====
PROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU
=====
Pilih menu rumus yang akan dihitung
1. Menghitung Kecepatan
2. Menghitung Jarak
3. Menghitung Waktu
4. Keluar
Masukkan pilihan menu dengan angka 1-3: 3

PROGRAM MENGHITUNG WAKTU
=====
Masukkan jarak(m): 500
Masukkan kecepatan(m/s): 4.5
=====
Waktu: 111.11111111111111 s

=====
PROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU
=====
Pilih menu rumus yang akan dihitung
1. Menghitung Kecepatan
2. Menghitung Jarak
3. Menghitung Waktu
4. Keluar
Masukkan pilihan menu dengan angka 1-3: 4

C:\Users\ASUS\POLINEMA\Praktikum-ASD\Pertemuan 1>
```