LAPORAN JOBSHEET 1

INSTALASI JAVA NETBEANS DAN IMPLEMENTASINYA PADA KONSEP DASAR PEMROGRAMAN

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Pemilihan

Kode Program:

```java
import java.util.Scanner;
public class pemilihan{
    public static void main(String []args){
        Scanner sc = new Scanner (System.in);
        System.out.println("PROGRAM MENGHITUNG NILAI AKHIR MAHASISWA");
        System.out.println("========================================");
        System.out.print("Masukkan nilai tugas: ");
        int tugas = sc.nextInt();
        System.out.print("Masukkan nilai UTS: ");
        int uts = sc.nextInt();
        System.out.print("Masukkan nilai UAS: ");
        int uas = sc.nextInt();
        System.out.println("========================================");
        System.out.println("========================================");
        double nilaiAkhir = 0.2*tugas + 0.45*uas + 0.35*uts;
        System.out.println("Nilai Akhir mahasiswa: "+ nilaiAkhir);
        String nilaiHuruf= new String();
        if(nilaiAkhir>80 && nilaiAkhir<=100){
            nilaiHuruf= "A";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir>73 && nilaiAkhir<=80){
            nilaiHuruf= "B+";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir>65 && nilaiAkhir<=73){
            nilaiHuruf= "B";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir>60 && nilaiAkhir<=65){
            nilaiHuruf= "C+";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir>50 && nilaiAkhir<=60){
            nilaiHuruf= "C";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir>39 && nilaiAkhir<=50){
            nilaiHuruf= "D";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }else if(nilaiAkhir<=39){
            nilaiHuruf= "E";
            System.out.println("Nilai Huruf: "+ nilaiHuruf);
        }
        System.out.println("========================================");
        if(nilaiHuruf.equals("D")||nilaiHuruf.equals("E")){
            System.out.println("Maaf Tidak Lulus");
        }else{
            System.out.println("SELAMAT LULUS");
        }
    }
}
```

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:

```java
import java.util.Scanner;
public class perulangan{
    public static void main(String[]args){
        Scanner sc= new Scanner(System.in);
        System.out.print("Masukkan NIM: ");
        String hari;
        int x=1;
        int nim = sc.nextInt();
        System.out.println("======================");
        System.out.print("Nilai n (2 digit terakhir NIM Anda): ");
        int n = sc.nextInt();
        if (n<10){
            n+=10;
        }

        for(int i=1;i<=n;i++){
            if(x==1){
                hari = "Senin";
                System.out.print(" "+hari);
                x++;
            }else if(x==2){
                hari = "Selasa";
                System.out.print(" "+hari);
                x++;
            }else if(x==3){
                hari = "Rabu";
                System.out.print(" "+hari);
                x++;
            }else if(x==4){
                hari = "Kamis";
                System.out.print(" "+hari);
                x++;
            }else if(x==5){
                hari = "Jumat";
                System.out.print(" "+hari);
                x++;
            }else if(x==6){
                hari = "Sabtu";
                System.out.print(" "+hari);
                x++;
            }else{
                hari = "Minggu";
                System.out.print(" " +hari);
                x = 1;
            }
        }
    }
}
```

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:

```java
import java.util.Scanner;
public class Array{
    public static void main(String []args){
        int jumAglonema=0, jumAlocasia=0, jumKeladi=0, jumMawar=0;
        int stock[][] ={{10, 5, 15, 7},
                        {6, 11, 9, 12},
                        {2, 10, 10, 5},
                        {5, 7, 12, 9},
        };
        //mencari jumlah stock bunga
        for(int i =0; i<stock.length; i++){
            for(int j =0; j<stock[0].length; j++){
                if(j==0){
                    jumAglonema+=stock[i][j];
                }else if(j==1){
                    jumKeladi+=stock[i][j];
                }else if(j==2){
                    jumAlocasia+=stock[i][j];
                }else if(j==3){
                    jumMawar+=stock[i][j];
                }
            }
        }
        System.out.println("Jumlah Stock Aglonema: "+jumAglonema);
        System.out.println("Jumlah Stock Keladi: "+jumKeladi);
        System.out.println("Jumlah Stock Alocasia: "+jumAlocasia);
        System.out.println("Jumlah Stock Mawar: "+jumMawar);

        //menghitung pendapatan
        int totalPendapatan=+75000*(stock[0][0]-1) + 50000*(stock[0][1]-2)+ 60000*(stock[0][2]-0) + 10000*(stock[0][3]-5);
        System.out.println("============================");
        System.out.println("Pendapatan RoyalGarden 1");
        System.out.println("============================");
        System.out.println("Total pendapatan: "+totalPendapatan);
    }
}
```

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:

```
public class fungsi{
    public static void main(String []args){
        String cabangToko[]= {"RoyalGarden1","RoyalGarden2", "RoyalGarden3", "RoyalGarden4"};
        String namaBunga[] ={"Aglonema", "Keladi", "Alocasia", "Mawar"};
        int stock[][] ={{10, 5, 15, 7},
                        {6, 11, 9, 12},
                        {2, 10, 10, 5},
                        {5, 7, 12, 9},
        };
        tampilArray(cabangToko, namaBunga, stock);
        hitungStock(cabangToko, namaBunga, stock);
    }
    static void tampilArray(String[]arrToko, String[]arrBunga, int[][]arrStock){
        System.out.println("");
        System.out.println("\t\t\t\t\tA. ARRAY STOCK BUNGA");
        System.out.println("");
        System.out.println(
        "-----------------------------------------------------------------------------------------------------------------------");
        System.out.print("             ");
        for(int j=0; j<4; j++){
            System.out.print("\t|\t"+arrBunga[j]+ "  ");
        }
        System.out.println("\t\t|\t");
        System.out.print(
        "-----------------------------------------------------------------------------------------------------------------------");
        for(int i=0; i<4; i++){
            System.out.println("");
            System.out.println(arrToko[i] +"\t|\t" + arrStock[i][0]+ "\t\t|\t" + arrStock[i][1] + "\t\t|\t" + arrStock[i][2] +
            "\t\t|\t" + arrStock[i][3] + "\t\t|\t");
            System.out.print(
            "-----------------------------------------------------------------------------------------------------------------------"
            );
```

```
        }
        System.out.println("");
    }
    static void hitungStock(String[]arrNato, String[]arrNabu, int[][]arrJum){
        System.out.println("");
        System.out.println("\t\t\t\tB. JUMLAH STOCK SESUAI JENIS BUNGA SELURUH CABANG ");
        System.out.println("");
        System.out.println(
        "-----------------------------------------------------------------------------------------------------------------------");
        System.out.print("             ");
        for(int j=0; j<4; j++){
            System.out.print("\t|\t"+arrNabu[j]+ "  ");
        }
        System.out.println("\t\t|\t");
        System.out.print("");
        System.out.println(
        "-----------------------------------------------------------------------------------------------------------------------");
        for(int i=0; i<4; i++){
            if (i==0){
                arrJum[0][0]-=1;
                arrJum[0][1]-=2;
                arrJum[0][2]-=0;
                arrJum[0][3]-=5;
            }
            System.out.print(" ");
            System.out.println(arrNato[i] +"\t|\t" + arrJum[i][0]+ "\t\t|\t" + arrJum[i][1] + "\t\t|\t" + arrJum[i][2] +
            "\t\t|\t" + arrJum[i][3] + "\t\t|\t");

            System.out.println(
            "-----------------------------------------------------------------------------------------------------------------------"
            );
```

```
        }
        int jum1=0, jum2=0, jum3=0, jum4=0;
        for(int i =0; i<arrJum.length; i++){
            for(int j =0; j<arrJum[0].length; j++){
                if(j==0){
                    jum1+=arrJum[i][j];
                }else if(j==1){
                    jum2+=arrJum[i][j];
                }else if(j==2){
                    jum3+=arrJum[i][j];
                }else if(j==3){
                    jum4+=arrJum[i][j];
                }
            }
        }
        System.out.println(" Jumlah " + "\t|\t" + jum1+ "\t\t|\t" + jum2 + "\t\t|\t" + jum3 +  "\t\t|\t" + jum4 + "\t\t|\t");
        System.out.print(
        "-----------------------------------------------------------------------------------------------------------------------");
    }
}
```

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:

```java
import java.util.Scanner;
public class Tugas1{
    public static void main(String []args){
        Scanner sc = new Scanner(System.in);
        System.out.println("\tPendapatan Smile Laundry");
        System.out.print("================================================");
        double totPemasukan=0;
        for(int i=0; i<4; i++){
            System.out.println("");
            System.out.print("Nama Customer " + (i+1) +"\t\t\t:");
            String nama = sc.next();
            System.out.print("Berat pakaian (kg)\t\t:");
            int beratLaundry = sc.nextInt();

            double hasilDiskon= hargaDiskon(beratLaundry);
            System.out.println("Biaya Laundry Customer "+ (i+1)+ "\t:"+hasilDiskon);
            totPemasukan+=hasilDiskon;
        }
        System.out.println("================================================");
        System.out.println("Total Pendapatan\t\t:"+totPemasukan);
        System.out.println("================================================");
    }
    static double hargaDiskon(int a){
        double diskon=0;
        if(a>10){
            diskon=0.05;
        }
        double hasil= (4500*a)-(diskon*4500*a);
        return hasil;
    }
}
```

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:

```java
import java.util.Scanner;
public class Tugas2{
    public static void main(String []args){
        Scanner sc = new Scanner(System.in);
        menu();
    }
    static void menu(){
        Scanner sc = new Scanner(System.in);
        System.out.println(" ");
        System.out.println("=================================================================");
        System.out.println("\tPROGRAM MENGHITUNG KECEPATAN, JARAK, DAN WAKTU");
        System.out.println("=================================================================");
        System.out.println("Pilih menu rumus yang akan dihitung ");
        System.out.println("1. Menghitung Kecepatan ");
        System.out.println("2. Menghitung Jarak ");
        System.out.println("3. Menghitung Waktu ");
        System.out.println("4. Keluar ");
        System.out.print("Masukkan pilihan menu dengan angka 1-3: ");
        int pilihMenu = sc.nextInt();
        if(pilihMenu==1){
            kecepatan();
        }else if(pilihMenu==2){
            jarak();
        }else if(pilihMenu==3){
            waktu();
        }else if(pilihMenu==4){

        }else{
            System.out.println("Maaf angka yang anda inputkan salah");
            menu();
        }
    }
    static void kecepatan(){
        Scanner sc = new Scanner(System.in);
        System.out.println(" ");
        System.out.println("PROGRAM MENGHITUNG KECEPATAN");
        System.out.println("=================================================================");
        System.out.print("Masukkan jarak(m): ");
        double s = sc.nextDouble();
        System.out.print("Masukkan waktu(s): ");
        double t = sc.nextDouble();
        double hasilKecepatan= s/t;
        System.out.println("=================================================================");
        System.out.println("Kecepatan: "+hasilKecepatan + " m/s");
        menu();
        System.out.println("");
    }
    static void jarak(){
        Scanner sc = new Scanner(System.in);
        System.out.println(" ");
        System.out.println("PROGRAM MENGHITUNG JARAK");
        System.out.println("=================================================================");
        System.out.print("Masukkan kecepatan(m/s): ");
        double v = sc.nextDouble();
        System.out.print("Masukkan waktu(s): ");
        double t = sc.nextDouble();
        double hasilJarak= v*t;
        System.out.println("=================================================================");
        System.out.println("Jarak: "+hasilJarak+ " m");
        menu();
        System.out.println("");
    }
    static void waktu(){
        Scanner sc = new Scanner(System.in);
        System.out.println(" ");
        System.out.println("PROGRAM MENGHITUNG WAKTU");
        System.out.println("=================================================================");
        System.out.print("Masukkan jarak(m): ");
        double s = sc.nextDouble();
        System.out.print("Masukkan kecepatan(m/s): ");
        double v = sc.nextDouble();
        double hasilWaktu= s/v;
        System.out.println("=================================================================");
        System.out.println("Waktu: "+hasilWaktu + " s");
        menu();
        System.out.println("");
    }
}
```

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>
```