# Laporan Praktikum Jobsheet 1

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Kelas: TI-1B

#### Praktikum 1

```
      ■ Praktikum1.java 1, IM, M
      X
      ■ Praktikum2.java 2
      ■ Praktikum3.java 1
      ■ Praktikum4.java 1

                                                                                                  Tugas1.java 1
                                                                                                                      Tugas2.java 2
 星 Praktikum1.java > Language Support for Java(TM) by Red Hat > 😭 Praktikum1 > 😚 main(String[])
       public class Praktikum1 {
            public static void main(String[] args) [
                Scanner sc = new Scanner(System.in);
                System.out.println(x:"Program Menghitung Nilai Akhir");
System.out.println(x:"==========;);
                System.out.print(s:"Masukan Nilai Tugas: ");
                double tugas = sc.nextDouble();
                System.out.print(s:"Masukan Nilai Kuis: ");
                double kuis = sc.nextDouble();
System.out.print(s:"Masukan Nilai UTS: ");
                double uts = sc.nextDouble();
System.out.print(s:"Masukan Nilai UAS: ");
                System.out.println(x:"=======");
                 System.out.println(x:"=======");
                if (tugas < 0 || tugas >= 100 || kuis < 0 || kuis >= 100 || uts < 0 || uts >= 100 || uas < 0 || uas >= 100) {
    System.out.println(x: "Nilai tidak valid");
                     System.out.println(x:"=======");
                    double nilaiAkhir = (0.2 * tugas) + (0.2 * kuis) + (0.3 * uts) + (0.3 * uas);
                    String huruf;
                    if (nilaiAkhir > 80 && nilaiAkhir <= 100) {
                    huruf = "A";
} else if (nilaiAkhir > 73 && nilaiAkhir <= 80) {
                        huruf = "B+
                    } else if (nilaiAkhir > 65 && nilaiAkhir <= 73) {
                         huruf :
                    } else if (nilaiAkhir > 60 && nilaiAkhir <= 65) {
                         huruf = "C+"
                     } else if (nilaiAkhir > 50 && nilaiAkhir <= 60) {
                         huruf =
                     } else if (nilaiAkhir > 39 && nilaiAkhir <= 50) {
                        huruf = "D";
                     } else {
                        huruf = "E";
                   } else if (nilaiAkhir > 60 && nilaiAkhir <= 65) {
                      huruf = "C+":
                   } else if (nilaiAkhir > 50 && nilaiAkhir <= 60) {
                      huruf = "C";
                   } else if (nilaiAkhir > 39 && nilaiAkhir <= 50) {
                      huruf = "D";
                       huruf = "E";
                   String keterangan = (huruf.equals(anObject:"D") || huruf.equals(anObject:"E")) ? "Tidak Lulus" : "Lulus";
                   System.out.printf(format:"nilai akhir : %.1f\n", nilaiAkhir);
                   System.out.println("Nilai Huruf: " + huruf);
System.out.println(x:"-----
                   System.out.println(x:"========
                   if (keterangan.equals(anObject:"Lulus")) {
                       System.out.println(x:"SELAMAT ANDA LULUS");
                   } else {
                      System.out.println(x:"ANDA TIDAK LULUS");
```

#### Hasil Outputnya 1:

#### Praktikum 2

```
Praktikum4.java 1
🖳 Praktikum2.java 2 🗶 🖳 Praktikum3.java 1
                                                            Tugas1.java 1
哩 Praktikum2.java > Language Support for Java(TM) by Red Hat > ધ Praktikum2 > 슝 main(String[])
      import java.util.Scanner;
      public class Praktikum2 {
          public static void main(String[] args) {
              Scanner input = new Scanner(System.in);
              long nim = 0;
              System.out.print(s:"Masukan Nim : ");
              nim = input.nextLong();
              long n = nim \% 100;
              if (n < 10) {
              System.out.println(x:"==========");
              System.out.println("n : " + n);
              for (int i = 1; i <= n; i++) {
                  if (i == 6 || i == 10) {
                      continue;
                   if (i % 2 == 0) {
                      System.out.print(i + " ");
                   } else {
                      System.out.print(s:"* ");
```

# Hasil Outputnya 2:

#### Praktikum 3

```
🖁 Praktikum3.java 1 🗶 🖳 Praktikum4.java 1
                                                 Tugas1.java 1
💻 Praktikum3.java > Language Support for Java(TM) by Red Hat > 😭 Praktikum3 > 😭 main(String[])
       import java.util.Scanner;
       public class Praktikum3 {
            public static void main(String[] args) {
                 Scanner sc = new Scanner(System.in);
                      String[] matkul = {
                           "Pancasila",
                           "Konsep Teknologi Informasi",
                           "Critical Thingking dan Problem Solving",
                           "Matematika Dasar",
                           "Bahasa Inggris",
                           "Dasar Pemrograman",
                           "Praktikum Dasar Pemrograman",
                           "Keselamatan dan Kesehatan Keria"
                 int jumlahMK = matkul.length;
 19
                 double totalBobot = 0;|
double totalSKS = jumlahMK;
                 double[] nilaiAngka = new double [jumlahMK];
String[] huruf = new String [jumlahMK];
                 double[] bobotNilai = new double [jumlahMK];
                 System.out.println(x:"========");
                 System.out.println(x: "Program Menghitung IP Semeter");
                 System.out.println(x:"==========;);
                 for (int i = 0; i < jumlahMK; i++) {
    System.out.print("Masukan nilai Angka untuk " + matkul[i] + ": ");</pre>
                      nilaiAngka[i] = sc.nextDouble();
                      if (nilaiAngka[i] >= 80) {
   huruf[i] = "A";
   bobotNilai[i] = 4.00;
                      } else if (nilaiAngka[i] >= 73) {
                          huruf[i] = "B+";
bobotNilai[i] = 3.50;
                      } else if (nilaiAngka[i] >= 65) {
                           huruf[i] = "B";
                           bobotNilai[i] = 3.00;
                      } else if (nilaiAngka[i] >= 60) {
                 bobotNilai[i] = 3.00;
              } else if (nilaiAngka[i] >= 60) {
                 huruf[i] = "C+";
bobotNilai[i] = 2.50;
              } else if (nilaiAngka[i] >= 50){
                 huruf[i] = "C";
                 bobotNilai[i] = 2.00;
              } else if (nilaiAngka[i] >= 39) {
                 huruf[i] = "D";
                 bobotNilai[i] = 1.00;
              } else {
                 huruf[i] = "E";
                 bobotNilai[i] = 0.00;
              totalBobot += bobotNilai[i];
           double IPS = totalBobot / totalSKS;
           System.out.println(x:"=======");
          System.out.println(x:"Hasil konversi Nilai");
           System.out.println(x:"=======");
          System.out.printf(format: "%-40s %-10s %-10s %-10s%n",...args: "MK", "Nilai Angka", "Nilai Huruf", "Bobot Nilai");
           for (int i = 0; i < jumlahMK; i++) {</pre>
              System.out.printf(format:"%-40s %-10.2f %-10s %-10.2f%n", matkul[i], nilaiAngka[i], huruf[i], bobotNilai[i]);
           System.out.println(x:"=======");
           System.out.printf(format:"IP : %.2f%n", IPS);
```

#### Hasil Outputnya 3:

```
Hasil konversi Nilai
                                        Nilai Angka Nilai Huruf Bobot Nilai
MK
Pancasila
                                        80,00
                                                             4,00
Konsep Teknologi Informasi
                                        90,00
                                                   Α
                                                              4,00
Critical Thingking dan Problem Solving
                                        95,00
                                                              4,00
                                                              2,00
Matematika Dasar
                                        50,00
Bahasa Inggris
                                        58,00
                                                              2,00
Dasar Pemrograman
                                        85,00
                                                              4,00
                                                   Α
Praktikum Dasar Pemrograman
                                        74,00
                                                   B+
                                                              3,50
Keselamatan dan Kesehatan Keria
                                        78,00
                                                   B+
                                                              3,50
IP: 3,38
  C:\Users\Lenovo\Downloads\PRAKALSD-SMT.2\Praktikum-ASD>
```

## Praktikum 4

```
🕊 Praktikum4.java > Language Support for Java(TM) by Red Hat > ધ Praktikum4 > 😚 kurangiStock(int[][, int[])
       public class Praktikum4 {
             public static void main(String[] args) {
                 int[] harga = { 75000, 50000, 60000, 10000 };
String[] bunga = { "Aglonema", "Keladi", "Alocasia", "Mawar" };
int[] bungaMati = { -1, -2, 0, -5 };
                  kurangiStock(stockBunga, bungaMati);
            public static void pendapatan(int[][] stockBunga, int[] harga) {
    System.out.println(x:"Pendapatan Tiap Cabang Jika Semua Bunga Terjual:");
                  for (int i = 0; i < stockBunga.length; i++)</pre>
                      int totalPendapatan = 0;
for (int j = 0; j < stockBunga[i].length; j++) {
   totalPendapatan += stockBunga[i][j] * harga[j];</pre>
                       System.out.println("RoyalGarden " + (i + 1) + ": Rp " + totalPendapatan);
                  System.out.println(x:"========");
                  System.out.println();
            public static void totalStock(int[][] stockBunga, String[] bunga) {
    System.out.println(x:"Total Stok Setiap Jenis Bunga:");
                  for (int i = 0; i < stockBunga.length; i++) {
    totalStock[j] += stockBunga[i][j];</pre>
                       System.out.println(bunga[j] + ": " + totalStock[j]);
                  System.out.println(x:"========");
                  System.out.println();
                      system.out.printin();
                 public static void kurangiStock(int[][] stockBunga, int[] bungaMati) {
                       System.out.println(x:"Stok Setelah Dikurangi Karena Bunga Mati:");
                       for (int i = 0; i < stockBunga.length; i++) {

System.out.print("RoyalGarden " + (i + 1) + ": ");

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

stockBunga[i][j] += bungama[i].length; j++) {
                                   System.out.print(stockBunga[i][j] + " ");
   51
                             System.out.println();
                       System.out.println(x:"==========");
```

## Hasil Outputnya 4:

```
Pendapatan Tiap Cabang Jika Semua Bunga Terjual:
RoyalGarden 1: Rp 1970000
RoyalGarden 2: Rp 1660000
RoyalGarden 3: Rp 1300000
RoyalGarden 4: Rp 1535000
Total Stok Setiap Jenis Bunga:
Aglonema: 23
Keladi: 33
Alocasia: 46
Mawar: 33
       ==========
Stok Setelah Dikurangi Karena Bunga Mati:
RoyalGarden 1: 9 3 15 2
RoyalGarden 2: 5 9 9 7
RoyalGarden 3: 1 8 10 0
RoyalGarden 4: 4 5 12 4
  C:\Users\Lenovo\Downloads\PRAKALSD-SMT.2\Praktikum
```

# Tugas 1

```
Tugas2.java 2
Է Tugas1.java > Language Support for Java(TM) by Red Hat > 😭 Tugas1 > 😚 main(String[])
       import java.util.Scanner;
       public class Tugas1 {
      "BANDUNG"
                     "CIREBON",
                     "BOGOR",
                     "PEKALONGAN",
                     "SEMARANG"
                     "SURABAYA",
                     "MALANG",
                     "TEGAL"
                Scanner sc = new Scanner(System.in);
                System.out.print(s:"Masukkan kode plat nomor: ");
char inputKode = sc.next().toUpperCase().charAt(index:0);
                boolean ketemu = false;
for (int i = 0; i < kode.length; i++) {
    if (kode[i] == inputKode) {
        System.out.println("Kota dari plat " + inputKode + " adalah " + kota[i]);</pre>
                         ketemu = true;
                         break:
                 if (!ketemu) {
                     System.out.println(x:"Kode plat tidak ditemukan");
```

## Hasil Outputnya 1:

```
\workspacestorage\55/dta5015ae30163/tdcce3a16f4115\rednat.java\jdt_ws\Praktiki
Masukkan kode plat nomor: h
Kota dari plat H adalah SEMARANG
PS C:\Users\Lenovo\Downloads\PRAKALSD-SMT.2\Praktikum-ASD> javac Tugas1.java
PS C:\Users\Lenovo\Downloads\PRAKALSD-SMT.2\Praktikum-ASD> java Tugas1
Masukkan kode plat nomor: n
Kota dari plat N adalah MALANG
```

# Tugas 2

```
🛂 Tugas2.java 2 🗶 🖳 Tugas3.java 2
星 Tugas2.java > Language Support for Java(TM) by Red Hat > 😝 Tugas2 > 🛇 keliling(double)
      import java.util.Scanner;
       public class Tugas2 {
           public static double volume(double sisi) {
           public static double luasPermukaan(double sisi) {
           public static double keliling(double sisi) {
                return 12 * sisi;
           public static void menu() {
    System.out.println(x:"\n---> Perhitungan Kubus <---");
    System.out.println(x:"1. Hitung Volume");</pre>
                System.out.println(x:"2. Hitung Luas Permukaan");
                System.out.println(x:"3. Hitung Keliling");
                System.out.println(x:"4. Keluar");
                System.out.print(s:"Pilih menu: ");
           Run main | Debug main | Run | Debug
public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                int pilihan = sc.nextInt();
                System.out.print(s:"Masukkan panjang sisi kubus: ");
                double sisi = sc.nextDouble();
                switch (pilihan) {
                    case 1:
                         System.out.println("Volume Kubus: " + volume(sisi));
                         break;
                         System.out.println("Luas Permukaan Kubus: " + luasPermukaan(sisi));
                         break;
                         System.out.println("Keliling Kubus: " + keliling(sisi));
                         preak;
                         System.out.println("Keliling Kubus: " + keliling(sisi));
                         break;
                    default:
                         System.out.println(x:"Pilihan tidak valid");
```

## Hasil outputnya 2:

```
---> Perhitungan Kubus <---
1. Hitung Volume
2. Hitung Luas Permukaan
3. Hitung Keliling
4. Keluar
Pilih menu: 2
Masukkan panjang sisi kubus: 5
Luas Permukaan Kubus: 150.0
PS C:\Users\Lenovo\Downloads\PRAKALSD-SMT.2\Praktikum-ASD> java Tugas2
---> Perhitungan Kubus <---
1. Hitung Volume
2. Hitung Luas Permukaan
3. Hitung Keliling
4. Keluar
Pilih menu: 3
Masukkan panjang sisi kubus: 5
Keliling Kubus: 60.0
```

# Tugas 3

```
星 Tugas3.java > Language Support for Java(TM) by Red Hat > ધ Tugas3
      import java.util.Scanner;
      public class Tugas3 {
    static String[] matkul;
           static int[] sks;
static int[] semester;
           static String[] hariKuliah;
           static int jumlahMatkul;
               System.out.print(s:"Masukkan jumlah mata kuliah: ");
               jumlahMatkul = sc.nextInt();
               matkul = new String[jumlahMatkul];
               sks = new int[jumlahMatkul];
               semester = new int[jumlahMatkul];
               hariKuliah = new String[jumlahMatkul];
               for (int i = 0; i < jumlahMatkul; i++) {</pre>
                   System.out.println("\nMasukkan data mata kuliah ke-" + (i + 1));
System.out.print(s:"Nama Mata Kuliah: ");
                    matkul[i] = sc.nextLine();
                    System.out.print(s:"Jumlah SKS: ");
                    System.out.print(s:"Semester: ");
                   semester[i] = sc.nextInt();
                    System.out.print(s:"Hari Kuliah: ");
                    hariKuliah[i] = sc.nextLine();
               System.out.println(x:"\n=== Jadwal Kuliah ===");
               for (int i = 0; i < jumlahMatkul; i++) {</pre>
                   System.out.println(matkul[i] + " | SKS: " + sks[i] + " | Semester: " + semester[i] + " | Hari: " + hariKuliah[i]);
           public static void tampilkanJadwalHari(Scanner sc) {
               System.out.print(s:"Masukkan hari kuliah yang ingin ditampilkan: ");
               String hariCari = sc.nextLine();
System.out.println("\n=== Jadwal Kuliah Hari " + hariCari + " ===");
```

```
■ Tugas3.java 2 ×

  里 Tugas3.java > Language Support for Java(TM) by Red Hat > ધ Tugas3
          public class Tugas3 {
               public static void tampilkanJadwalHari(Scanner sc) {
                    String hariCari = sc.nextline();
System.out.println("\n=== Jadwal Kuliah Hari " + hariCari + " ===");
                    boolean ditemukan = false;
for (int i = 0; i < jumlahMatkul; i++) {</pre>
                          if (hariKuliah[i].equalsIgnoreCase(hariCari)) {
    System.out.println(matkul[i] + " | SKS: " + sks[i] + " | Semester: " + semester[i]);
                     if (!ditemukan) {
                          System.out.println("Tidak ada mata kuliah pada hari " + hariCari);
                    System.out.print(s:"Masukkan semester yang ingin ditampilkan: ");
                    int semesterCari = sc.nextInt():
                    System.out.println("\n=== Jadwal Kuliah Semester " + semesterCari + " ===");
                    boolean ditemukan = false;
                    for (int i = 0; i < jumlahMatkul; i++) {
    if (semester[i] == semesterCari) {
        System.out.println(matkul[i] + " | SKS: " + sks[i] + " | Hari: " + hariKuliah[i]);</pre>
                               ditemukan = true;
                    if (!ditemukan) {
                          System.out.println("Tidak ada mata kuliah pada semester " + semesterCari);
               public static void cariMataKuliah(Scanner sc) {
    System.out.print(s:"Masukkan nama mata kuliah yang ingin dicari: ");
                    String namaCari = sc.nextLine();
System.out.println(x:"\n=== Hasil Pencarian Mata Kuliah ===");
                    Tugas3.iava 2 X

■ Tugas3.java > Language Support for Java(TM) by Red Hat > 

$\frac{4}{5}$ Tugas3

3 public class Tugas3 {

                              System.out.println(matkul[i] + " | SKS: " + sks[i] + " | Semester: " + semester[i] + " | Hari: " + hariKuliah[
                              ditemukan = true;
                    if (!ditemukan) {
                         System.out.println("Mata kuliah '" + namaCari + "' tidak ditemukan.");
                   while (true)
                         System.out.println(x:"\n=== MENU JADWAL KULIAH ===");
                         System.out.println(x: \n=== MENO JAUWAL KOLIAH === );

System.out.println(x:"1. Tambah Data Mata Kuliah");

System.out.println(x:"2. Tampilkan Semua Jadwal");

System.out.println(x:"3. Tampilkan Jadwal Berdasarkan Hari");

System.out.println(x:"4. Tampilkan Jadwal Berdasarkan Semester");
                         System.out.println(x:"5. Cari Mata Kuliah");
System.out.println(x:"6. Keluar");
System.out.print(s:"Pilih menu: ");
                         int pilihan = sc.nextInt();
sc.nextLine();
                         switch (pilihan) {
                              case 1:
                              case 2:
                                  tampilkanSemuaJadwal();
                                   break;
                              case 5:
                              case 6:
                                  System.out.println(x:"Program selesai");
```

# Hasil Outputnya 3:

```
Masukkan data mata kuliah ke-1
Nama Mata Kuliah: Kewarganegaraan
Jumlah SKS: 2
Semester: 2
Hari Kuliah: rabu
Masukkan data mata kuliah ke-2
Nama Mata Kuliah: Analisis Bisnis
Jumlah SKS: 2
Semester: 2
Hari Kuliah: Kamis
=== MENU JADWAL KULIAH ===
1. Tambah Data Mata Kuliah
2. Tampilkan Semua Jadwal
3. Tampilkan Jadwal Berdasarkan Hari
4. Tampilkan Jadwal Berdasarkan Semester
5. Cari Mata Kuliah
6. Keluar
Pilih menu: 2
=== Jadwal Kuliah ===
Kewarganegaraan | SKS: 2 | Semester: 2 | Hari: rabu
Analisis Bisnis | SKS: 2 | Semester: 2 | Hari: Kamis
```