

Jobsheet 1

1. Pemilihan

```
1  import java.util.Scanner;
2
3  public class pemilihan {
4      public static void main(String[] args) {
5          double nilaiKuis;
6          double nilaiTugas;
7          double UTS;
8          double UAS;
9          Scanner sc = new Scanner(System.in);
10
11         System.out.println("Masukkan Nilai Tugas");
12         nilaiTugas = sc.nextDouble();
13         System.out.println("Masukkan Nilai Kuis");
14         nilaiKuis = sc.nextDouble();
15         System.out.println("Masukkan Nilai UTS");
16         UTS = sc.nextDouble();
17         System.out.println("Masukkan Nilai UAS");
18         UAS = sc.nextDouble();
19         if (nilaiTugas < 0 || nilaiTugas > 100 || nilaiKuis < 0 || nilaiKuis > 100 || UAS < 0 || UAS > 100 || UTS < 0
20             || UTS > 100) {
21             System.out.println("Nilai Tidak Valid");
22         } else {
23             double nilaiAkhir = nilaiTugas * 0.2 + nilaiKuis * 0.2 + UTS * 0.3 + UAS * 0.3;
24             String nilaiHuruf = "A";
25             if (nilaiAkhir > 80 && nilaiAkhir <= 100) {
26                 nilaiHuruf = "A";
```

```
1      } else if (nilaiAkhir > 73 && nilaiAkhir <= 80) {
2          nilaiHuruf = "B+";
3      } else if (nilaiAkhir > 65 && nilaiAkhir <= 73) {
4          nilaiHuruf = "B";
5      } else if (nilaiAkhir > 60 && nilaiAkhir <= 65) {
6          nilaiHuruf = "C+";
7
8      } else if (nilaiAkhir > 50 || nilaiAkhir <= 60) {
9          nilaiHuruf = "C";
10
11      } else if (nilaiAkhir > 39 && nilaiAkhir <= 50) {
12          nilaiHuruf = "D";
13
14      } else if (nilaiAkhir <= 39) {
15          nilaiHuruf = "E";
16      }
17      if (nilaiHuruf.equals("D") || nilaiHuruf.equals("E")) {
18          System.out.println("TIDAK LULUS");
19      } else {
20          System.out.println("Nilai Akhir: " + nilaiAkhir);
21          System.out.println("Nilai Huruf: " + nilaiHuruf);
22          System.out.println("SELAMAT ANDA LULUS");
23      }
24  }
25
26  }
27 }
```

```
Masukkan Nilai Tugas: 85
Masukkan Nilai Kuis: 90
Masukkan Nilai UTS: 120
Masukkan Nilai UAS: 70
Nilai Tidak Valid
```

```
Masukkan Nilai Tugas: 90
Masukkan Nilai Kuis: 40
Masukkan Nilai UTS: 75
Masukkan Nilai UAS: 85
Nilai Akhir: 74.0
Nilai Huruf: B+
SELAMAT ANDA LULUS
```

2. Perulangan

```
1  import java.util.Scanner;
2
3  public class perulangan {
4      public static void main(String[] args) {
5          Scanner sc = new Scanner(System.in);
6          System.out.println("Masukkan NIM:");
7          String NIM = sc.nextLine();
8          int n = Integer.parseInt(NIM.substring(NIM.length() - 2));
9          if (n < 10) {
10             n += 10;
11         }
12         for (int i = 1; i <= n; i++) {
13             if (i == 6 || i == 10) {
14                 continue;
15             }
16             if (i % 2 == 0) {
17                 System.out.print(i);
18             } else {
19                 System.out.print("*");
20             }
21         }
22     }
23 }
```

```
Masukkan NIM:2341760085
```

```
*2*4**8**12*14*16*18*20*22*24*26*28*30*32*34*36*38*40*42*44*46*48*50*52*54*56*58*60*62*64*66*68*70*72*74*76*78*80*82*84*
```

3. Array

```
1 import java.util.Scanner;
2
3 public class array {
4     public static void main(String[] args) {
5         String[] mata = { "Pancasila", "Konsep Teknologi Informasi", "Critical Thinking Dan Problem Solving",
6             "Matematika Dasar", "Bahasa Inggris", "Dasar Pemrograman", "Praktikum Dasar Pemrograman",
7             "Keselamatan Dan Kesehatan Kerja" };
8         int[] sks = { 2, 2, 2, 3, 2, 2, 3, 2 };
9         double[] nilaiAngka = new double[8];
10        String[] nilaiHuruf = new String[8];
11        double[] bobotNilai = new double[8];
12        double total = 0;
13        double totalSKS = 0;
14        Scanner sc = new Scanner(System.in);
15
16        for (int i = 0; i < mata.length; i++) {
17            System.out.print("masukkan nilai angka untuk MK " + mata[i] + " :");
18            nilaiAngka[i] = sc.nextDouble();
19            if (nilaiAngka[i] > 80 && nilaiAngka[i] <= 100) {
20                nilaiHuruf[i] = "A";
21                bobotNilai[i] = 4;
22            } else if (nilaiAngka[i] > 73 && nilaiAngka[i] <= 80) {
23                nilaiHuruf[i] = "B+";
24                bobotNilai[i] = 3.5;
25            } else if (nilaiAngka[i] > 65 && nilaiAngka[i] <= 73) {
26                nilaiHuruf[i] = "B";
27                bobotNilai[i] = 3;
28            } else if (nilaiAngka[i] > 60 && nilaiAngka[i] <= 65) {
29                nilaiHuruf[i] = "C+";
30                bobotNilai[i] = 2.5;
```

```
1     } else if (nilaiAngka[i] > 50 || nilaiAngka[i] <= 60) {
2         nilaiHuruf[i] = "C";
3         bobotNilai[i] = 2;
4     } else if (nilaiAngka[i] > 39 && nilaiAngka[i] <= 50) {
5         nilaiHuruf[i] = "D";
6         bobotNilai[i] = 1;
7     } else if (nilaiAngka[i] <= 39) {
8         nilaiHuruf[i] = "E";
9         bobotNilai[i] = 0;
10    }
11    }
12    System.out.printf("%-40s %-15s %-15s %-15s\n", "MK", "Nilai Angka", "Nilai Huruf", "Bobot Nilai");
13    for (int i = 0; i < mata.length; i++) {
14        System.out.printf("%-40s %-15s %-15s %-15s\n", mata[i], nilaiAngka[i], nilaiHuruf[i], bobotNilai[i]);
15    }
16    for (int i = 0; i < bobotNilai.length; i++) {
17        double IP = bobotNilai[i] * sks[i];
18        total += IP;
19        totalSKS += sks[i];
20    }
21    total = total / totalSKS;
22    System.out.printf("%.2f", total);
23 }
24 }
```

```

masukkan nilai angka untuk MK Pancasila:75
masukkan nilai angka untuk MK Konsep Teknologi Informasi:85
masukkan nilai angka untuk MK Critical Thinking Dan Problem Solving:70
masukkan nilai angka untuk MK Matematika Dasar:85
masukkan nilai angka untuk MK Bahasa Inggris:85
masukkan nilai angka untuk MK Dasar Pemrograman:62
masukkan nilai angka untuk MK Praktikum Dasar Pemrograman:62
masukkan nilai angka untuk MK Keselamatan Dan Kesehatan Kerja:85
MK                               Nilai Angka    Nilai Huruf    Bobot Nilai
Pancasila                        75.0          B+             3.5
Konsep Teknologi Informasi       85.0          A              4.0
Critical Thinking Dan Problem Solving 70.0          B              3.0
Matematika Dasar                85.0          A              4.0
Bahasa Inggris                  85.0          A              4.0
Dasar Pemrograman               62.0          C+             2.5
Praktikum Dasar Pemrograman      62.0          C+             2.5
Keselamatan Dan Kesehatan Kerja  85.0          A              4.0
3.42

```

4. Fungsi

```

1  public class fungsi {
2      public static void main(String[] args) {
3          int[][] royalGarden = {
4              { 10, 5, 15, 7 },
5              { 6, 11, 9, 12 },
6              { 2, 10, 10, 5 },
7              { 5, 7, 12, 9 }
8          };
9          int[] totalPendapatan = new int[4];
10         pendapatan(royalGarden, totalPendapatan);
11         System.out.println("=====");
12         System.out.println("Stock Pada Royal Garden 4:");
13         System.out.println("=====");
14         stock(royalGarden);
15     }

```

```

1  static void pendapatan(int[][] stok, int[] pendapatan) {
2      int aglonema = 75000;
3      int keladi = 50000;
4      int alocasia = 60000;
5      int mawar = 10000;
6      for (int i = 0; i < stok.length; i++) {
7          pendapatan[i] = aglonema * stok[i][0] + keladi * stok[i][1] + alocasia * stok[i][2]
8              + mawar * stok[i][3];
9      }
10     for (int i = 0; i < stok.length; i++) {
11         System.out.println("Pendapatan Royal Garden " + (i + 1) + " " + pendapatan[i]);
12     }
13 }
14
15
16 static void stock(int[][] stock) {
17     int pengurangan[] = { 1, 2, 0, 5 };
18     for (int i = 3; i < stock.length; i++) {
19         for (int j = 0; j < stock[i].length; j++) {
20             stock[i][j] = stock[i][j] - pengurangan[j];
21             System.out.println(stock[i][j]);
22         }
23     }
24 }
25 }

```

```

Pendapatan Royal Garden 1 1970000
Pendapatan Royal Garden 2 1660000
Pendapatan Royal Garden 3 1300000
Pendapatan Royal Garden 4 1535000
=====
Stock Pada Royal Garden 4:
=====
4
5
12
4

```