Pemrograman Berorientasi Objek (Tugas 2)



Disusun Oleh:

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PROGRAM STUDI S-1 TEKNIK INFORMATIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS PADJADJARAN JATINANGOR

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```
package com.mycompany.tugas21;
import java.util.Scanner;
  @author prame
public class Tugas21 {
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.print("Masukkan nama : ");
        String nama = sc.nextLine();
        System.out.print("Masukkan NPM : ");
        String npm = sc.nextLine();
        System.out.print("Masukkan nilai ke-1 : ");
        int n1 = sc.nextInt();
        System.out.print("Masukkan nilai ke-2 : ");
        int n2 = sc.nextInt();
        System.out.print("Masukkan nilai ke-3 : ");
        int n3 = sc.nextInt();
        int rata = ((n1+n2+n3)/3);
        System.out.println();
        System.out.println("Nama = " + nama);
        System.out.println("NPM = " + npm);
        nilaiAkhir(rata);
        sc.close();
    }
    static void nilaiAkhir(int rata){
        String mutu = "", kelulusan = "";
        if (100>=rata && rata>=80){
            mutu = "A";
            kelulusan = "Lulus";
        } else if (80>rata && rata>=68){
            mutu = "B";
            kelulusan = "Lulus";
        } else if (68>rata && rata>=55){
            mutu = "C";
```

```
kelulusan = "Lulus";
       } else if (55>rata && rata>=45){
           mutu = "D";
           kelulusan = "Gagal";
       } else if (45>rata && rata>=0){
           mutu = "E";
           kelulusan = "Gagal";
       System.out.println("Nilai = " + mutu + " (" + kelulusan + ")");
   }
Masukkan nama : Prames
Masukkan NPM: 140810210059
Masukkan nilai ke-1: 90
Masukkan nilai ke-2:80
Masukkan nilai ke-3: 90
Nama = Prames
NPM = 140810210059
Nilai = A (Lulus)
```

```
package com.mycompany.tugas22;
import java.util.Scanner;

/**
    * @author prame
    */
public class Tugas22 {

    public static void main(String[] args) {
        int num = 0;
        String word = "Default";

        System.out.print("Input (1-10): ");
        Scanner sc = new Scanner(System.in);
        num = sc.nextInt();

        System.out.println();

        //if-else statement
        System.out.println("[If-Else statement]");
        System.out.println(num + " = " + ifElse(num));
    }
}
```

```
System.out.println();
    System.out.println("[Switch-Case Statement]");
    System.out.println(num + " = " + switchStatement(num));
    sc.close();
}
static String ifElse(int num) {
    String word = "";
    if(num == 1)
        word = "Satu";
    else if(num == 2)
        word = "Dua";
    else if(num == 3)
        word = "Tiga";
    else if(num == 4)
        word = "Empat";
    else if(num == 5)
        word = "Lima";
    else if(num == 6)
        word = "Enam";
    else if(num == 7)
        word = "Tujuh";
    else if(num == 8)
        word = "Delapan";
    else if(num == 9)
        word = "Sembilan";
    else if(num == 10)
        word = "Sepuluh";
    else {
       word = "Invalid Number";
    return word;
}
static String switchStatement(int num) {
    String word = "";
    switch (num) {
```

```
case 1:
                word = "Satu";
                break;
            case 2:
                word = "Dua";
                break;
            case 3:
                word = "Tiga";
                break;
            case 4:
                word = "Empat";
                break;
            case 5:
                word = "Lima";
                break;
            case 6:
                word = "Enam";
                break;
            case 7:
                word = "Tujuh";
                break;
            case 8:
                word = "Delapan";
                break;
            case 9:
                word = "Sembilan";
                break;
            case 10:
                word = "Sepuluh";
                break;
            default:
                word = "Invalid Number";
                break;
        }
        return word;
    }
Input (1-10): 9
[If-Else statement]
9 = Sembilan
[Switch-Case Statement]
9 = Sembilan
```

```
package com.mycompany.tugas23;
import java.util.Scanner;
  @author prame
public class Tugas23 {
    public static void main(String[] args) {
        String nama = "";
        int gol = 0;
        long gapok = 0;
        float potongan = 0, tunjangan = 0;
        Scanner sc = new Scanner(System.in);
        System.out.print("Nama\t\t: ");
        nama = sc.nextLine();
        System.out.print("Golongan\t: ");
        gol = sc.nextInt();
        switch (gol) {
            case 1:
                gapok = 1500000;
                potongan = 0.01f;
                tunjangan = 0.1f;
                break;
                case 2:
                qapok = 20000000;
                potongan = 0.02f;
                tunjangan = 0.12f;
                break;
            case 3:
                qapok = 3000000;
                potongan = 0.02f;
                tunjangan = 0.12f;
                break;
            case 4:
                gapok = 50000000;
                potongan = 0.04f;
```

```
tunjangan = 0.15f;
                break;
                default:
                break;
            }
        long gatot = (long) (gapok + (gapok*tunjangan) -
(gapok*potongan));
        System.out.println("Gaji Pokok\t: " + gapok);
        System.out.println("Tunjangan\t: " + (int) (tunjangan*100) + "%");
        System.out.println("Potongan\t: " + (int) (potongan*100) + "%");
        System.out.println();
        System.out.println("Gaji Total\t: " + gatot);
        sc.close();
    }
Nama
               : Prames
Golongan
              : 1
Gaji Pokok
              : 1500000
Tunjangan
              : 10%
Potongan
               : 1%
Gaji Total : 1635000
```

```
package com.mycompany.tugas24;
import java.util.Scanner;
/**
   * @author prame
   */
public class Tugas24 {

   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Masukkan baris : ");
        int n = sc.nextInt();
```

```
System.out.println();
        loopFor(n);
        System.out.println();
        loopWhile(n);
        sc.close();
    }
    static void loopFor(int n){
        int i, j;
        for(i=n; i>=1; i--){
            System.out.print(i + ".");
            for(j=i; j>=1; j--){
                System.out.print(" *");
            System.out.println();
        }
    }
    static void loopWhile(int n){
        int j, i=1;
        while(i \le n){
            System.out.print(i + ".");
            j=1;
            while(j<=i){</pre>
                System.out.print(" *");
                 j++;
            }
            i++;
            System.out.println();
        }
    }
Masukkan baris : 3
3. * * *
2. * *
1. *
```

```
package com.mycompany.tugas25;
import java.util.Scanner;
 * @author prame
public class Tugas25 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        int i, j, hasil;
        System.out.print("Masukkan angka : ");
        int x = scan.nextInt();
        System.out.print("Masukkan pangkat : ");
        int n = scan.nextInt();
        if(n == 0)
            hasil = 1;
            System.out.println("Hasil = " + hasil);
        } else {
            whileStatement(x, n);
            doWhileStatement(x, n);
            forStatement(x, n);
    }
    static void while Statement (int x, int n) {
        int i = 1, hasil = x;
        while(i < n){
            hasil *= x;
            i++;
        }
        System.out.println("Hasil dari loop While = " + hasil);
    }
    static void doWhileStatement(int x, int n) {
        int i = 1, hasil = x;
        do{
            if(n == 1){
                hasil = x;
```

```
i++;
            } else {
                hasil *= x;
                i++;
        } while(i<n);</pre>
       System.out.println("Hasil dari loop Do While = " + hasil);
   }
   static void forStatement(int x, int n) {
        int i = 1, hasil = x;
        hasil = x;
            for(i = 1; i < n; i++){
                hasil *= x;
            }
       System.out.println("Hasil dari loop For = " + hasil);
   }
Masukkan angka: 3
Masukkan pangkat : 3
Hasil dari loop While = 27
Hasil dari loop Do While = 27
Hasil dari loop For = 27
```