

IK22

Praktikum Dasar Pemrograman Java



Disusun Oleh :

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PROGRAM STUDI PENDIDIKAN ILMU KOMPUTER

FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM

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1. Implementasi dan Hasil

Implementasi dan Hasil

A. Conditional

1. Define Month

a. Program

```
import java.io.*;
import java.util.*;
public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        Scanner input = new Scanner(System.in);
        int number = input.nextInt();
        switch(number){
            case 1:
                System.out.println("January");
                break;
            case 2:
                System.out.println("February");
                break;
            case 3:
                System.out.println("March");
                break;
            case 4:
                System.out.println("April");
                break;
            case 5:
                System.out.println("May");
                break;
            case 6:
                System.out.println("June");
                break;
            case 7:
                System.out.print("July");
                break;
            case 8:
                System.out.print("August");
                break;
            case 9:
                System.out.print("September");
                break;
            case 10:
                System.out.print("October");
                break;
            case 11:
                System.out.print("November");
                break;
            case 12:
                System.out.print("Desember");
                break;
            default :
                System.out.print("Input Error");
        }
    }
}
```

}

b. Score

Define Month	100.00pts (12:14)
The Number of the Day	100.00 (63:41)
Palindrome 196	100.00 (90:25)

2. The Number Of The Day

a. Program

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        Scanner input = new Scanner(System.in);
        int M = input.nextInt();
        int Y = input.nextInt();
        int numbOfDays = 0;
        System.out.print("");

        switch (M){
            case 1:
                numbOfDays = 31;
                break;
            case 2:
                if ((Y % 400 == 0 || (Y % 4 == 0) && (Y % 100 !=
0))) {
                    numbOfDays = 29 ;
                }
                else{
                    numbOfDays = 28;
                }
                break;
            case 3:
                numbOfDays = 31;
                break;
            case 4:
                numbOfDays = 30;;
                break;
            case 5:
                numbOfDays = 31;;
                break;
            case 6:
                numbOfDays = 30;;
                break;
            case 7:
                numbOfDays = 31;;
                break;
            case 8:
                numbOfDays = 31;
                break;
            case 9:
```

```

        numbOfDays = 30;
        break;
    case 10:
        numbOfDays = 31;
        break;
    case 11:
        numbOfDays = 30;
        break;
    case 12:
        numbOfDays = 31;
        break;
    }
    System.out.print(numbOfDays);
}
}

```

b. Score

Define Month	100.00pts (12:14)
The Number of the Day	100.00 (63:41)
Palindrome 196	100.00 (90:25)

3. Palindrome

a. Program

```

import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        Scanner input = new Scanner(System.in);
        int a = input.nextInt();
        int b = 0;
        int c;
        int temp = a;
        while(a>0){
            c = a % 10;
            b = ( b*10 )+c;
            a = a/10;
        }
        if ((temp==b) && b>9){
            System.out.println("Palindrome");
        }else{
            System.out.println("Not Palindrome");
        }
    }
}

```

b. Score

Define Month	100.00pts (12:14)
The Number of the Day	100.00 (63:41)
Palindrome 196	100.00 (90:25)

B. Loop In Java

1. Arithmetic

a. Program

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        int a, b = 0, c = 0;
        double Average;
        Scanner x= new Scanner(System.in);

        do {
            a = x.nextInt();
            if(a > 0){
                b = a + b;
                c++;
            }

        }while(a != 0);

        x.close();

        if(c == 0){
            c++;
        }

        Average = (double)b/c;

        System.out.println(b);
        System.out.printf("%.1f", Average);

    }
}
```

a. Score

Arithmetic	100.00pts (245:57)
Conversion 1	100.00 (277:34)
Triangle of Numbers 3	100.00 (359:20)

2. Conversion

a. Program

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        float result;
        Scanner input = new Scanner(System.in);

        //N:Bilangan bulat
        //M:Bilangan desimal
        int N = input.nextInt();
        float M = input.nextFloat();

        for (int i=0; i<N; i++) {
            result = (float)((M + i) * 2.2);
            System.out.printf("%.2f  %.2f\n", (M + i),
result);
        }
    }
}
```

b. Score

Arithmetic	100.00pts (245:57)
Conversion 1	100.00 (277:34)
Triangle of Numbers 3	100.00 (359:20)

3. Triangle Of Number

a. Program

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print
        output to STDOUT. Your class should be named Solution. */
        int i,j;

        Scanner input = new Scanner(System.in);

        int n = input.nextInt();

        for(i = 0; i <= n; i++) {
            for(j = 0; j <= i; j++) {
                System.out.print(j + " ");
            }
            System.out.println();
        }
        for (i = n; i >= 0; i--) {
            for (j = 0; j <= i; j++) {
                System.out.print(j + " ");
            }
        }
    }
}
```

```

        System.out.println();
    }
    for(i = 0; i <= n; i++) {
        for (j=2*(n-i); j>=1; j--) {
            System.out.print(" ");
        }
        for(j = 0; j <= i; j++) {
            System.out.print(j + " ");
        }
        System.out.println();
    }
    for (i = n; i >= 0; i--) {
        for (j=2*(n-i); j>=1; j--) {
            System.out.print(" ");
        }
        for (j = 0; j <= i; j++) {
            System.out.print(j + " ");
        }
        System.out.println();
    }
}
}

```

b. Score

Arithmetic	100.00pts (245:57)
Conversion 1	100.00 (277:34)
Triangle of Numbers 3	100.00 (359:20)