RESPONSI PRAKTIKUM ALGORITMA DAN PEMROGRAMAN LANJUT



Disusun Oleh:

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YOGYAKARTA

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```
NOMOR 1
import java util . Scanner;
Public class Penghargaan {
    public Static roid main (String args[]) {
    Scanner scan = new scanner (system.in):
    int nim:
    int sem;
    String nama;
    >y Stem. out. print ("NIM: ");
    nim = 5 can next (nf();
    System.out. print ("Nama: ");
    nama=scan.next();
    System. out. print ("Jumlah Semester: "):
     Sem = Scan. next ht();
     double (] data = new double [8];
      int[] keluar = new int[8];
     For (int 1:0; 1(8; ift){
          System.out.print("IPS "+(i+1)+":");
          data[i]=scan.nextPouble();
     system.out.println ("lenghargaan setiap semester:");
                                                             OUTPUT
      teluar = penghargaan (data);
                                                             NIM:195410257
     For (intizo:i(8;itt){
                                                             Nama: Raden
          System. out. println (data[i]t" "t keluar[i]);
                                                             Juntah semester: 8
                                                             1P5 1:3.2
                                                             1852:3.1
   public Static int[] penghargaan (double[]x){
                                                              IPS 3:35
      int n = x. length;
                                                             1P5 4:3.9
      int hasil [] znew int [n];
                                                              IPS 5 :4.0
      For (int izo; i/n; itt) {
                                                             185 6:3.4
          if ((x(1))3.6) && (x(1)<3.5){
                                                              IPS 7:3.8
                                                              162 8:33
             hasi [i] = 100000;
                                                             Penghargaan Setiap semester:
         } else if (x[i] >=3.5){
                                                                   600000
             hasil [i]=200000;
                                                                    (00000
                                                                    200 000
                                                                   200 000
                                                                    200000
        return hasil
                                                                    100 000
                                                                    200000
                                                              3.3
                                                                    (00000
```

NOMOR 2 DI HALAMAN SELANJUTNYA

```
Nomor 2
import java. util. Scanner:
Public class Usia {
   Public static void main (string args[]) {
   Scanner scan = new Scanner (system.in);
   int [] data = new int [7];
    String[] keluar = new String[7];
    For (int 1:0; i<7; i++){
       System.out.print ("Usia -"+(i+1)+":");
        data[i]=s(an.nextlnf();
    system.out.println ("=============")
    System.out.println (" (tasil konversi")
    > ditemiout.println ("============")
    Keluar : KonversiUsia (data);
    For (int 120; 127; 1+1){
         System.out.println (data[i]+" "+ keluar[i]);
    }
                                                            OUTPUT
 public Static String[] konversiUsia (Int[]x) [
     int n = X. length;
                                                            Usia-1:3
     String hasil () = new String [n];
                                                            Usia-2:8
      For (int 120; i < n; itt) {
                                                             Usia-3:16
          if ((x[i] >0) && (x[i] <=5)){
                                                             Usia-A:25
                                                             Usia-5:43
               hasil [i] = "balita";
                                                             Usia-6:55
          } 6/26 ! ((x[:]>=6)88 (x[:]<=10)){
                                                             Usia-7:0
               hasil[i]="anak";
          7 else if ((x[i] >=11)&& (x[i] <=20)){
                                                             Hasil Konversi
                hasil[i] = "Temaja";
                                                             3 balita
          Jelse if ((xci])=21) & (x[i] <= 35)){
                                                             8 anak
               hasil [i] ="dewasa";
                                                             16 remaja
          } else if ((x[i]>=367&& (x[i]<=501){
                                                             25 dewasa
               hasil (i) = "paruh baya";
                                                            43 Parch baya
          } else if (x(i)>50){
                                                             ss tua
                                                             O Usia salah
               hasil [i] = "tua";
           } else {
               hasil [i] = "Usia Salah"
       return hasil:
```

```
MOMOR 3
import java util . Scanner;
 public class Rekursip {
     public static long Tes (int n) {
        if ( n==0 )
           return 0;
        else if (n==1)
            return 1;
        else return ((n-2)+(n*4));
     public static void main (string args []) {
          Scanner input = new Scanner (System.in);
          System.out.print ("masukkan angka: "):
          int n = input. next | nt ():
           System.out.println ("Hasil rekursig z"+ Tes(n);
   Output
                             Output
                                                   Output
                                                   masuhkan angka:5
                             masukkan angka: 1
   Masukkan angka: 0
                                                   Hasil remursip = 23
                             Hasil remursip =1
   Hasil rekursif = 0
```

Terima Kasih.