Contoh Praktikum Algortima dan Pemograman



Nama : Agil Deriansyah Hasan Nim : 4522210125

Dosen:

Dra.SRI REZEKI CANDRA NURSARI,M.Kom Prak. Algoritma dan Pemrograman - B

S1-Teknik Informatika
Fakultas Teknik
Universitas Pancasila 2023/2024

```
Command Prompt
| File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
| Solution | So
                                                                                                                                                                                                                                                                                                                                                                                                                               E:\>sort
Sebelum Dilakukan Pengurutan
                                                                                                    #include <iostream>
#include <string.h>
#define agil_n 9
        prak6-17
                                                                                                                             void agil1()
                                                                                                                                                                                                                                                                                                                                                                                                                                  Step By Step Dilakukan Pengurutan
                                                                                                                                        fungsi3
P09-12
                                                                                                                                                                                                                                                                                                                                                                                                                                  14
                                                                                                                             void agil2()
           fungsi4
P10-14
                                                                                                                                         10
                                                                                                                                                                agil_j=agil_k;
agil_i=agil_k+1;
while(agil_i<=agil_n-1)
                                                                                                                                                                 {
    if(agi1_a[agi1_i] > agi1_a[agi1_j])
        agi1_j=agi1_i;
        cout << agi1_a[agi1_i] << " ";
        agi1_i++;
           point3
                                                                                                                                            cout << end1;
agil_x = agil_a[agil_j];
agil_a[agil_j] = agil_a[agil_k];
agil_a[agil_k] = agil_x;
agil_k++;
cout << end1;
cout << end1;</pre>
           array22
array23
                                                                                                                                                                                                                                                                                                                                                                                                                                  Sesudah Dilakukan Pengurutan
            cnthstring
                                                                                                                             void agil3()
                                                                                                                                                                                                                                                                                                                                                                                            length:
```

PSEUDOCODE

endfor

```
Mengurutkan data dengan metode Insertion Sort
KAMUS/DEKLARASI VARIABEL
agil _a[agil _n], agil _i, agil _k, agil _ x, agil _n: int
Algoritma/Deskripsi
agil _n=9
agil _A[agil _n] = {23, 17, 14, 6, 13, 10, 1, 5, 7}
for(agil _i=0; agil _i<= agil _n-1; agil _i++)
  print(agil _A[agil _i], "
endfor
for(agil _k=0; agil _k<= agil _n; agil _k++)
 agil _i= agil _k
 agil _x= agil _A[agil _i]
   while(agil _i> 0 && agil _A[agil _i-1] > agil _x)
      agil _A[agil _i] = agil _A[agil _i-1]
     agil i-
  endwhile
  agil _A[agil _i]= agil _x
endfor
for(agil _i= 0; agil _i<= agil _n-1; agil _i++)
 print(agil _A[agil _i], " ")
```

Algoritma/Bahasa Alami:

```
· agil_n=9
```

- Const agil _A[agil _n] = {23, 17, 14, 6, 13, 10, 1, 5,
 7}
- agil _i=0
- Selama(agil _i <= agil _n-1) kerjakan baris 5 s.d.7 kalau tidak baris 8
- Mencetak/menampilkan isi variable agil _A[agil _i]
- · Mencetak/menampilkan isi variable (" ")
- · agil _i++
- agil_k=0
- Selama(agil _k <= agil _n), maka kerjakan baris 10
 s.d. 16 kalau tidak baris 17
- agil _i = agil _k
- · agil _x= agil _A[agil _i]
- Selama(agil _i>=0 dan agil _A[agil _i-1] > agil _x),
 maka kerjakan baris 13 s.d.14 kalau tidak baris 15
- · agil _A[agil _i]= dhandi_A[dhandi_i-1]
- · agil _i—
- · agil _A[agil _i]= agil _x
- · agil _k++
- Selama(agil _i <= agil _n-1) kerjakan baris 18 s.d.20 kalau tidak baris 21
- Mencetak/menampilkan isi variable agil _A[agil _i]
- Mencetak/menampilkan isi variable (" ")
- · agil_i++
- Selesai

insert Sort = Ascending

agil _A:[23, 17, 14, 6, 13, 10, 1, 5, 7]									
Iterasi	Data[Data[9]							
	1]	2]	3]	4]	5]	6]	7]	8]	
Awal	23	17	14	6	13	10	1	5	7
agil _i=1	23	17	14	6	13	10	1	5	7
agil _i=2	1	17	14	6	13	10	23	5	7
agil _i=3	1	5	14	6	13	10	23	17	7
agil _i=4	1	5	6	14	13	10	23	17	7
agil _i=5	1	5	6	7	13	10	23	17	14
agil _i=6	1	5	6	7	10	13	23	17	14
agil _i=7	1	5	6	7	10	13	23	17	14
agil _i=8	1	5	6	7	10	13	14	17	23
Akhir	1	5	6	7	10	13	14	17	23