

1. Program Cek Lima

Kamus

in : integer

Algoritma

input(in)

if  $in == 5$  then

output("ini adalah angka 5")

else

output("ini bukan angka 5")

endif

End program

2. Program Cek kelipatan tiga

Kamus

~~in : integer~~

in : integer

Algoritma

input(in)

if  $in \bmod 3 == 0$  then

output(in, "adalah ~~but~~ bilangan kelipatan tiga")

~~else~~ else

output(in, "~~adalah~~ bukan bilangan kelipatan tiga")

End if

End program



### 3. Program RataRata

Kamus

in, i : integer

total : Real

Algoritma

total  $\leftarrow$  0

input (in)

While (~~in~~  $\neq$  -999) do

~~total  $\leftarrow$  total + in~~

total  $\leftarrow$  total + in

input (in)

i  $\leftarrow$  i + 1

endwhile

output (total / i)

endprogram

#### 4. Program Tukar Kamus Global

a, b : integer

##### Algoritma

a  $\leftarrow$  10

b  $\leftarrow$  5

Tukar 1 (b, a)

Tukar 2 (a, b)

Tukar 1 (a, b)

Endprogram

#### Procedur Tukar 1 (input a, b)

Kamus lokal

temp : integer

##### Algoritma

temp = a

a = b

b = temp

Endprogram



Procedure Tukar 2 (in a, in/out b)

kamus lokal

temp : integer

Algoritma

temp = 0

a ← b

b ← a

end program

## 5. Program Nilai Mahasiswa

kamus global

Constant nMax : integer  $\leftarrow 51$

type mahasiswa <

nama, NIM : String

nilai : integer

~~kamus lokal~~  
~~arr Mhs :~~

type arrMhs : array [1... nMax] of mahasiswa

kamus lokal

arrMhs : arrMhs

nData, idx, i : integer

nim ~~nama~~ : String

Algoritma

input (nData)

if nData > nMax then

nData  $\leftarrow$  nMax

endif

for i  $\leftarrow$  1 to nData do

input(arrMhs[i].NIM, arrMhs[i].nama, arrMhs[i].nilai)

endfor



```
input (nim)
idx ← nilai Pertama(arrMhs, nData, nim)
if idx == -1 then
    output (arrMhs[idx].nilai)
else
    output (idx)
endif
endprogram

T: arrMhs
Procedure nilai Pertama(arrMhs T, N: integer, NIM: string)
Kamus lokal
    idx, i: integer
Algoritma
    idx ← -1
    i ← 0
    while idx == -1 AND i < n then
        if (T[i].NIM == NIM) then
            idx ← i
        endif
        i ← i + 1
    endwhile
endprocedure
```