

Steps of the Day



Let's Start



Definition

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- The simplest and basic structure in algorithm.
- Instruction was processed in sequential way

(top down approach).



Characteristics of Sequential Structure

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All about Sequential Structure

- Each instruction was processed one by one.
- No repeateance in each instruction.
- The last instruction is the end of algorithm.
- Sequence of instructions is same with
 - sequence of instructions in Algorithm





Case of Employee's Salary

UNIKOM has n employees with salary asumptions such as:

- Salary of each employee was equal each other.
- Salary was counted by basic salary + allowance tax.
- The tax is 10 % from basic salary before added by allowance.
- Allowance is 20% from basic salary.
- Basic salary can be changed.

Calculate salary that UNIKOM must be pay to all employees, detail of tax, and detail of allowance for each employee

Algorithm of Employee's Salary

```
Algoritma Gaji Karyawan
1
2
     {I.S: Jumlah karyawan dan Gaji pokok diinput oleh user}
3
     {F.S: Menampilkan gaji, pajak, dan tunjangan karyawan}
4
5
    Deklarasi:
6
       gaji pokok,gaji,jml gaji:real
      pajak:real
       tunjangan:real
8
       jml karyawan:integer
9
10
11
    Algoritma:
12
       input(jml karyawan,gaji pokok)
13
      pajak←0.1*gaji pokok
14
      tunjangan ← 0.2*gaji pokok
15
      gaji ←gaji pokok+tunjangan-pajak
       jml gaji←gaji*jml karyawan
16
17
       output('Pajak perorang= Rp. ',pajak)
18
       output('Tunjangan perorang= Rp. ',tunjangan)
       output(Gaji ',jml karyawan,' orang karyawan= Rp. ',jml gaji)
19
```

Pascal Code of Employee's Salary

```
program Gaji Karyawan;
2
    uses crt;
3
4
    var
5
       gaji pokok,gaji,jml gaji:real;
       pajak:real;
6
       tunjangan:real;
8
       jml karyawan:integer;
9
10
    begin
11
      write('Masukan jumlah karyawan: ');readln(jml karyawan);
12
      write('Masukan gaji pokok : ');readln(gaji pokok);
      pajak:=0.1*gaji pokok;
13
14
      tunjangan:=0.2*gaji pokok;
15
      gaji:=gaji pokok+tunjangan-pajak;
16
      jml gaji:=gaji*jml karyawan;
17
      clrscr();{untuk membersihkan layar}
18
      writeln('Pajak perorang = Rp. ',pajak:0:2);
19
      writeln('Tunjangan perorang = Rp. ',tunjangan:0:2);
20
      writeln('Gaji ',jml karyawan,' orang = Rp. ',jml gaji:0:2);
21
      writeln();
22
      write('Tekan sembarang tombol untuk menutup...');
23
      readkey();
24
    end.
```



Collection of Exercises

AND MANUAL MANUA

Exercises of Sequential Search

Exercise 1

Create the algorithm and pascal code to:

- Around and area for 4 2-dimensional space
- Around and area for 3 3-dimensional space.

Exercise 2

Create the algorithm and pascal code to show curriculum vitae in paragraph style.

THANK YOU

GRACIAS

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