

STRUKTUR PERULANGAN

While – Do (Lanjutan)

Temu 9

Contoh 1#

Buatlah Algoritma untuk menghasilkan output dibawah ini :

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

Dengan pengulangan while-do

Program contoh1#

Deklarasi

a, b : integer

Algoritma

a 1

while a <= 5 do

 b 1

 while b <= a do

 write(b, ')

 b b +1

 endwhile

 writeln

 a a +1

endwhile

End Algoritma

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[] contoh1#.pas = 1=[]

```
Program contoh1;
uses crt;
var
    a,b : integer;
begin
    clrscr;
    a := 1;
    while a <= 5 do
    begin
        b:= 1;
        while b <= a do
        begin
            write(b,' ');
            b := b + 1;
        end;
        writeln;
        a := a + 1;
    end;
    readln;
end.
```

* 1:16

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```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Contoh 2#

Buatlah Algoritma untuk menghasilkan output dibawah ini :

*

* *

* * *

* * * *

* * * * *

Dengan pengulangan while-do

Program contoh2#

Deklarasi

a, b : integer

Algoritma

a 1

while a <= 5 do

 b 1

 while b <= a do

 write('*':3)

 b b +1

 endwhile

 writeln

 a a +1

endwhile

End Algoritma

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[] contoh2#.pas []

```
Program contoh1;
uses crt;
var
    a,b : integer;
begin
    clrscr;
    a := 1;
    while a <= 5 do
    begin
        b:= 1;
        while b <= a do
        begin
            write('*':3);
            b := b + 1;
        end;
        writeln;
        a := a + 1;
    end;
    readln;
end.
```

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```
*
* *
* * *
* * * * *
```

Contoh 3#

Buatlah Algoritma untuk menghasilkan output dibawah ini :

1 1 1 1 1

2 2 2 2 2

3 3 3 3 3

4 4 4 4 4

5 5 5 5 5

Dengan pengulangan while-do

Program contoh3#

Deklarasi

a,b : integer

Algoritma

a 1

while a <= 5 do

 b 1

 while b <= 5 do

 write(a,'')

 b b + 1

 endwhile

 writeln

 a a + 1

endwhile

End Algoritma

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[] contoh3#.pas 1=[]

```
Program contoh3;
uses crt;
var
    a,b : integer;
begin
    clrscr;
    a := 1;
    while a <= 5 do
    begin
        b := 1;
        while b <= 5 do
        begin
            write(a,' ');
            b := b + 1;
        end;
        writeln;
        a := a + 1;
    end;
    readln;
end.
```

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```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```