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Tugas Praktikum Algoritma dan Pemrograman Modul 10

1. Program 10A

Program:

```
*Praktikum10A
1  program Praktikum10A;
.  Var
.  A: array[0..9] of Real;
.  B: array[-10..20] of String;
5  C: array['a'..'j'] of Boolean;
.  X: array[1..10] of Integer;
.  begin
.  X[1] := 10;
.  X[2] := X[1] - 5;
10 X[3] := X[2] + X[1];
.  Writeln(X[3]);
.
.  Writeln(X[13]);
.  Writeln(A[10]);
15 readln;
.  end.
```

Output:

```
15
0
1.0609978959767018E-313
```

2. Program 10B

Program:

```
Praktikum10B
1  program Praktikum10B;
.  Var
.  X : array[1..10] of Integer;
.  Terbesar: Integer;
5  i : Integer;
.  Begin
.  For i:=1 to 10 do
.  Begin
.  Write('Input data ke-', i, ' = ');
10 Readln(X[i]);
.  End;
.  Terbesar := X[1];
.  For i:=2 to 10 do
.  Begin
15 If X[i] > Terbesar then
.  Terbesar := X[i];
.  End;
.  Writeln('Nilai terbesar adalah : ', Terbesar);
.  Readln;
20 End.
```

Output:

```
Input data ke-1 = 14
Input data ke-2 = 21
Input data ke-3 = 3
Input data ke-4 = 56
Input data ke-5 = 2
Input data ke-6 = 11
Input data ke-7 = 33
Input data ke-8 = 56
Input data ke-9 = 78
Input data ke-10 = 43
Nilai terbesar adalah : 78
```


Output:

```
buat matriks A
```

```
[1,1]=2
```

```
[1,2]=3
```

```
[1,3]=4
```

```
[2,1]=3
```

```
[2,2]=2
```

```
[2,3]=3
```

```
[3,1]=4
```

```
[3,2]=3
```

```
[3,3]=2
```

```
buat matriks B
```

```
[1,1]=1
```

```
[1,2]=4
```

```
[1,3]=3
```

```
[2,1]=2
```

```
[2,2]=1
```

```
[2,3]=3
```

```
[3,1]=4
```

```
[3,2]=6
```

```
[3,3]=9
```

```
Matriks A
```

```
2 3 4
```

```
3 2 3
```

```
4 3 2
```

```
Matriks B
```

```
1 4 3
```

```
2 1 3
```

```
4 6 9
```

```
Matriks c
```

```
3 7 7
```

```
5 3 6
```

```
8 9 11
```

4. Program 10D

Program:

```
Praktikum10D
1  Program Praktikum10D;
.  var
.    a,b,c: array[1..3, 1..3, 1..3] of integer;
.    i,j,k: integer;
5  begin
.    writeln('buat matriks A');
.    for i:=1 to 3 do
.      for j:=1 to 3 do
.        begin
10       for k:=1 to 3 do
.         begin
.           write(['i,',i,',',j,',',k,']=');
.           readln(a[i,j,k]);
.         end;
15       end;
.     writeln('buat matriks B');
.     for i:=1 to 3 do
.       for j:=1 to 3 do
20       begin
.         for k:=1 to 3 do
.           begin
.             write(['i,',i,',',j,',',k,']=');
.             readln(b[i,j,k]);
.           end;
25       end;
.     writeln('hasil matriks c = a+b');
.     for i:=1 to 3 do
.       for j:=1 to 3 do
30       begin
.         for k:=1 to 3 do
.           begin
32             c[i,j,k]:= a[i,j,k]+b[i,j,k];
.             write(['i,',i,',',j,',',k,']=',c[i,j,k]));
.             writeln;
35           end;
.         end;
.       readln;
38     end.
```

Output:

```
buat matriks A
[1,1,1]=4
[1,1,2]=4
[1,1,3]=4
[1,2,1]=4
[1,2,2]=4
[1,2,3]=4
[1,3,1]=4
[1,3,2]=4
[1,3,3]=4
[2,1,1]=4
[2,1,2]=4
[2,1,3]=4
[2,2,1]=4
[2,2,2]=4
[2,2,3]=4
[2,3,1]=4
[2,3,2]=4
[2,3,3]=4
[3,1,1]=4
[3,1,2]=4
[3,1,3]=4
[3,2,1]=4
[3,2,2]=4
[3,2,3]=4
[3,3,1]=4
[3,3,2]=4
[3,3,3]=4
```

```
buat matriks B
```

```
[1,1,1]=3  
[1,1,2]=3  
[1,1,3]=3  
[1,2,1]=3  
[1,2,2]=3  
[1,2,3]=3  
[1,3,1]=3  
[1,3,2]=3  
[1,3,3]=3  
[2,1,1]=3  
[2,1,2]=3  
[2,1,3]=3  
[2,2,1]=3  
[2,2,2]=3  
[2,2,3]=3  
[2,3,1]=3  
[2,3,2]=3  
[2,3,3]=3  
[3,1,1]=3  
[3,1,2]=3  
[3,1,3]=3  
[3,2,1]=3  
[3,2,2]=3  
[3,2,3]=3  
[3,3,1]=3  
[3,3,2]=3  
[3,3,3]=3
```

```
hasil matriks c = a+b
```

```
[1,1,1]=7  
[1,1,2]=7  
[1,1,3]=7  
[1,2,1]=7  
[1,2,2]=7  
[1,2,3]=7  
[1,3,1]=7  
[1,3,2]=7  
[1,3,3]=7  
[2,1,1]=7  
[2,1,2]=7  
[2,1,3]=7  
[2,2,1]=7  
[2,2,2]=7  
[2,2,3]=7  
[2,3,1]=7  
[2,3,2]=7  
[2,3,3]=7  
[3,1,1]=7  
[3,1,2]=7  
[3,1,3]=7  
[3,2,1]=7  
[3,2,2]=7  
[3,2,3]=7  
[3,3,1]=7  
[3,3,2]=7  
[3,3,3]=7
```

5. Program 10E

Program:

```
*Praktikum10E
1  Program Praktikum10E;
.  type
.    matrix= array[1..3, 1..3, 1..3] of integer;
.  var
.    a,b,c: matrix;
.    i,j,k: integer;
.  begin
.    writeln('buat matriks A');
.    for i:=1 to 3 do
10   for j:=1 to 3 do
.     begin
.       for k:=1 to 3 do
.         begin
15          write(['i,',j,',',k,']=');
.          readln(a[i,j,k]);
.        end;
.      end;
.    end;
.    writeln('buat matriks B');
.    for i:=1 to 3 do
20   for j:=1 to 3 do
.     begin
.       for k:=1 to 3 do
.         begin
25          write(['i,',j,',',k,']=');
.          readln(b[i,j,k]);
.        end;
.      end;
.    end;
.    writeln('hasil matriks c = a+b');
.    for i:=1 to 3 do
30   for j:=1 to 3 do
.     begin
.       for k:=1 to 3 do
.         begin
35          c[i,j,k]:= a[i,j,k]+b[i,j,k];
.          write(['i,',j,',',k,']=c[i,j,k]);
.          writeln;
.        end;
.      end;
.    end;
39  readln;
40  end.
```

Output:

```
buat matriks A
[1,1,1]=4
[1,1,2]=4
[1,1,3]=4
[1,2,1]=4
[1,2,2]=4
[1,2,3]=4
[1,3,1]=4
[1,3,2]=4
[1,3,3]=4
[2,1,1]=4
[2,1,2]=4
[2,1,3]=4
[2,2,1]=4
[2,2,2]=4
[2,2,3]=4
[2,3,1]=4
[2,3,2]=4
[2,3,3]=4
[3,1,1]=4
[3,1,2]=4
[3,1,3]=4
[3,2,1]=4
[3,2,2]=4
[3,2,3]=4
[3,3,1]=4
[3,3,2]=4
[3,3,3]=4
```

```
buat matriks B
```

```
[1,1,1]=3  
[1,1,2]=3  
[1,1,3]=3  
[1,2,1]=3  
[1,2,2]=3  
[1,2,3]=3  
[1,3,1]=3  
[1,3,2]=3  
[1,3,3]=3  
[2,1,1]=3  
[2,1,2]=3  
[2,1,3]=3  
[2,2,1]=3  
[2,2,2]=3  
[2,2,3]=3  
[2,3,1]=3  
[2,3,2]=3  
[2,3,3]=3  
[3,1,1]=3  
[3,1,2]=3  
[3,1,3]=3  
[3,2,1]=3  
[3,2,2]=3  
[3,2,3]=3  
[3,3,1]=3  
[3,3,2]=3  
[3,3,3]=3
```

```
hasil matriks c = a+b
```

```
[1,1,1]=7  
[1,1,2]=7  
[1,1,3]=7  
[1,2,1]=7  
[1,2,2]=7  
[1,2,3]=7  
[1,3,1]=7  
[1,3,2]=7  
[1,3,3]=7  
[2,1,1]=7  
[2,1,2]=7  
[2,1,3]=7  
[2,2,1]=7  
[2,2,2]=7  
[2,2,3]=7  
[2,3,1]=7  
[2,3,2]=7  
[2,3,3]=7  
[3,1,1]=7  
[3,1,2]=7  
[3,1,3]=7  
[3,2,1]=7  
[3,2,2]=7  
[3,2,3]=7  
[3,3,1]=7  
[3,3,2]=7  
[3,3,3]=7
```