

```
D:\terdekatgo - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
tp06go x new 1 x terdekatgo x
1 /* NIM : 1301194086
2   Nama : Mikogizka Satria Kartika
3 */
4 package main
5
6 import (
7     "fmt"
8     "math"
9 )
10
11 var numpoint int64
12 var jarDek float64
13
14 type Point struct {
15     x float64
16     y float64
17 }
18
19 const N = 10000
20
21 var points [N]Point
22
23 func jarak(p1 Point, p2 Point) float64 {
24     var ttk, ttk1, ttk2 float64
25     ttk1 = p1.x - p2.x
26     ttk2 = p1.y - p2.y
27
28     ttk = math.Sqrt((ttk1 * tt1) + (ttk2 * tt2))
29     return ttk
30 }
31
32 func bacaTitik() {
33     i := 0
34     cek := true
35     for cek && numpoint < N {
36         fmt.Scan(&points[i].x, &points[i].y)
37         if points[i].x == 0 && points[i].y == 0 {
38             cek = false
39         } else {
40             numpoint++
41         }
42         i++
43     }
44 }
45
46 Normal text file length: 1.376 lines: 79 Ln: 56 Col: 23 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
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```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17763.805]
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D:\>go run terdekat.go
3.0 0.0
0.0 4.0
3.0 4.0
0.0 0.0
Titik terdekat adalah (0.0, 4.0) dan (3.0, 4.0) dengan jarak 3.0 -----
Nama: Mikogizka Satria Kartika
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D:\>
```

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36 fmt.Scan(&points[i].x, &points[i].y)
37 if points[i].x == 0 && points[i].y == 0 {
38     cek = false
39 } else {
40     numpoint++
41 }
42 i++
43 }
44 }
45
46 func ambilTitikTerdekat(p1 *Point, p2 *Point) {
47     var i, a int64
48     i = 0
49     var dekat float64
50     for i+1 <= numpoint {
51         a = i + 1
52         jarDek = jarak(points[i], points[a])
53         dekat = jarak(*p1, *p2)
54         if jarDek < dekat && jarDek > 0 {
55             dekat = jarDek
56             *p1 = points[i]
57             *p2 = points[a]
58         } else if i == 0 {
59             dekat = jarDek
60             *p1 = points[i]
61             *p2 = points[a]
62         }
63     }
64     i++
65 }
66
67
68
69 func main() {
70     var p1 Point
71     var p2 Point
72     bacaTitik()
73     ambilTitikTerdekat(&p1, &p2)
74     fmt.Printf("Titik terdekat adalah (%.1f, %.1f) dan (%.1f, %.1f) dengan jarak %.1f ", p1.x, p1.y, p2.x, p2.y, jarak(p1, p2))
75
76     fmt.Println("-----")
77     fmt.Println("Nama: Mikogizka Satria Kartika")
78     fmt.Println("NIM: 1301194086")
79 }
80
81 Normal text file length: 1.376 lines: 79 Ln: 36 Col: 41 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
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