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File Edit Selection View Go Debug Terminal Help
terdekatgo - Visual Studio Code

D:\Data Tugas Program\Tugas 04-11-2019\terdekatgo
1 /*Nama : Fahmi Abdillah Al Amien
2  Kelas: SE-43-03
3  NIM : 1302194037
4  */
5 package main
6 import (
7     "fmt"
8     "math"
9 )
10
11 type Point struct {
12     x, y float64
13 }
14
15 const N int = 10000
16
17 var Points [N]Point
18 var numpoints int
19
20 func jarak (p1 Point, p2 Point) float64 {
21     return math.Sqrt(((p1.x - p2.x) * (p1.x - p2.x) + (p1.y - p2.y) * (p1.y - p2.y)))
22 }
23
24 func bacaTitik() {
25     var (
26         p Point
27     )
28     numpoints = 0
29     fmt.Scanln(&p.x, &p.y)
30     for (numpoints < N) && !(p.x == 0 && p.y == 0) {
31         Points[numpoints] = p
32         numpoints++
33         fmt.Scanln(&p.x, &p.y)
34     }
35 }
36
37 func ambilititikterdekat(p1 *Point, p2 *Point) {
38     *p1 = Points[0]
39     *p2 = Points[1]
40     for i := 0; i < numpoints; i++ {
41         for j := i + 1; j < numpoints; j++ {
42             if jarak(Points[i], Points[j]) < jarak(*p1, *p2) {
43                 *p1 = Points[i]
44                 *p2 = Points[j]
45             }
46         }
47     }
48 }
49
50 func main() {
51     var (
52         p1, p2 Point
53     )
54     fmt.Println(" ")
55     fmt.Println("=====FAHMI ABDILLAH AL AMIEN=====")
56     fmt.Println("=====1302194037=====")
57     fmt.Println(" ")
58     bacaTitik()
59     ambilititikterdekat(&p1, &p2)
60     fmt.Printf("Titik Terdekat adalah (%.1f,%.1f) dan (%.1f,%.1f) dengan jarak %.1f.\n", p1.x, p2.y, p2.x, p2.y, jarak(p1, p2))
61 }

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C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.

D:\Data Tugas Program\Tugas 04-11-2019>go build terdekat.go

D:\Data Tugas Program\Tugas 04-11-2019>terdekat.exe

=====FAHMI ABDILLAH AL AMIEN=====
=====1302194037=====

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.

D:\Data Tugas Program\Tugas 04-11-2019>
```