```
NIM: 1302194015
     Nama: Muhamad Dwiki Riswanda
     package main
     import (
         "math"
         "fmt"
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     type Point struct {
         x, y float64
14
15
     const N int = 10000
     var points [N]Point
     var numpoints int
21
22
     func jarak(p1 Point, p2 Point) float64{
         return math.Sqrt(((p1.x - p2.x) * (p1.x - p2.x)) + ((p1.y - p2.y) * (p1.y - p2.y)))
25
     func bacaTitik() {
         var(
             p Point
         numpoints = 0
         fmt.Scanln(&p.x, &p.y)
32
         for (numpoints < N) && !(p.x == 0 \&\& p.y == 0){}
             points[numpoints] = p
             numpoints++
             fmt.Scanln(&p.x, &p.y)
```

```
numpoints++
           fmt.Scanln(&p.x, &p.y)
    func ambilTitikTerdekat(p1 *Point, p2 *Point) {
        *p1 = points[0]
        *p2 = points[1]
42
        for i := 0; i < numpoints; i++ {
           for j := i + 1; j < numpoints; j++ {
44
               if jarak(points[i], points[j]) < jarak(*p1, *p2) {</pre>
                  *p1 = points[i]
47
                  *p2 = points[j]
    func main() {
        var (
           p1, p2 Point
57
        fmt.Println("========"")
        fmt.Println(" PROGRAM TERDEKAT ")
        fmt.Println("========"")
        bacaTitik()
        ambilTitikTerdekat(&p1, &p2)
        fmt.Printf("Titik tedekat adalah (%.1f,%.1f) dan (%.1f,%.1f) dengan jarak %.1f.\n", p1.x, p1.y, p2.x, p2.y, jarak(p1,p2))
        fmt.Println("========"")
        fmt.Println("Nama : Muhamad Dwiki Riswanda")
        fmt.Println("NIM : 1302194015")
        fmt.Println("========"")
70
71
```

```
PS D:\Telkom University\ILMY\Go\3 November 2019\Tipe Bentukan> go run .\terdekat.go
        PROGRAM TERDEKAT
3.0 0.0
0.0 4.0
3.0 4.0
0.0 0.0
Titik tedekat adalah (0.0,4.0) dan (3.0,4.0) dengan jarak 3.0.
Nama : Muhamad Dwiki Riswanda
```

Nama : Munamad Dw. NIM : 1302194015
