

TUGAS PRAKTIKUM
PEMROGRAMAN BERBASIS WEB (A)



DI SUSUN OLEH :

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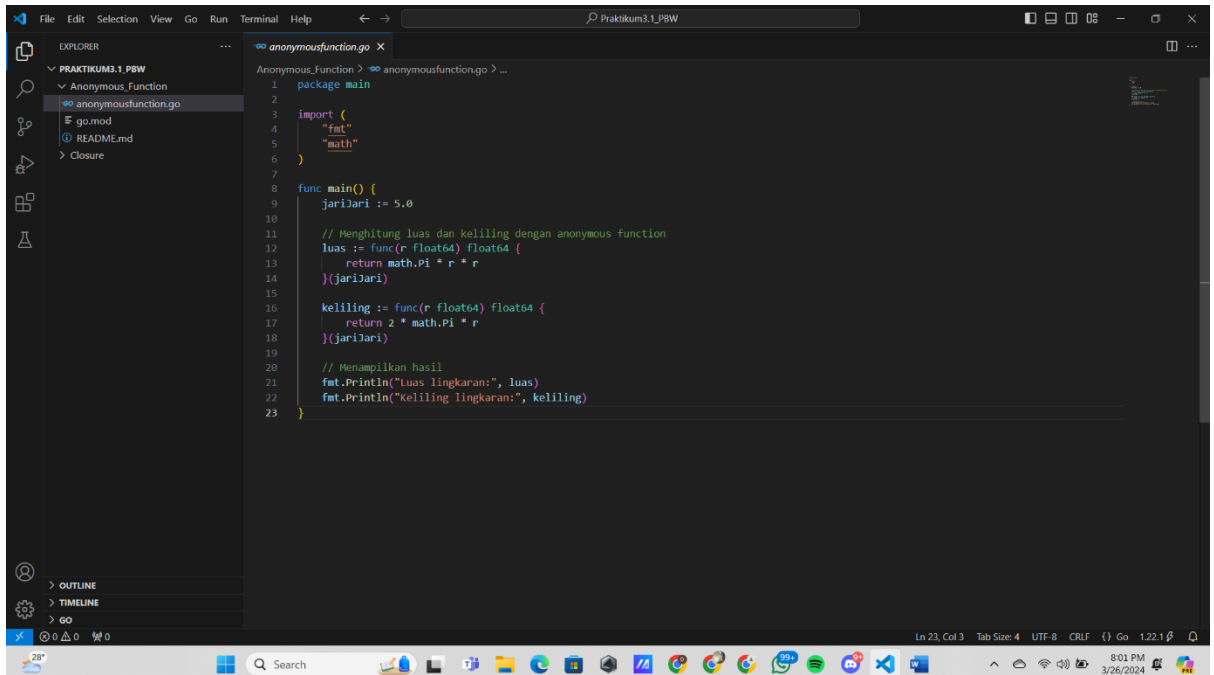
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1. Anonymous Function

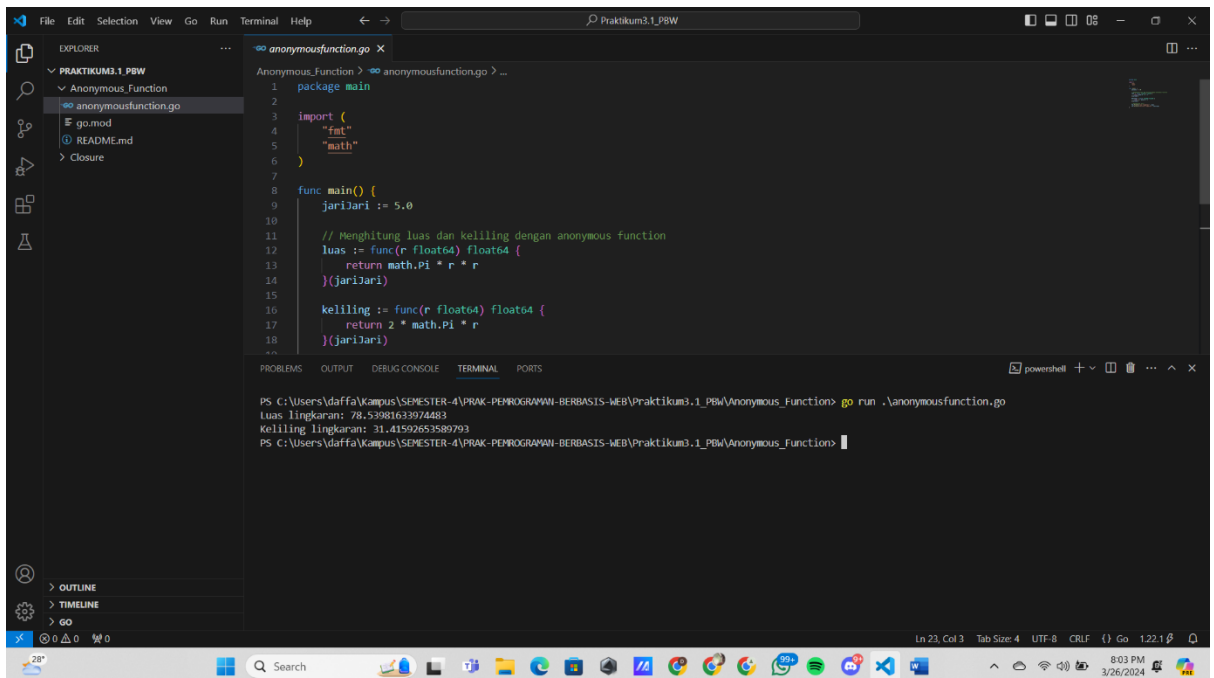
- Source Code



The screenshot shows the Visual Studio Code editor with a Go file named `anonymousfunction.go`. The code defines a package `main` and imports `fmt` and `math`. It then defines a `main` function where a variable `jarilari` is set to 5.0. Two anonymous functions are defined: `luas` for calculating the area of a circle and `keliling` for calculating the circumference. Both functions are called with `jarilari` as an argument. The results are printed using `fmt.Println`.

```
1 package main
2
3 import (
4     "fmt"
5     "math"
6 )
7
8 func main() {
9     jarilari := 5.0
10
11     // Menghitung luas dan keliling dengan anonymous function
12     luas := func(r float64) float64 {
13         return math.Pi * r * r
14     }(jarilari)
15
16     keliling := func(r float64) float64 {
17         return 2 * math.Pi * r
18     }(jarilari)
19
20     // Menampilkan hasil
21     fmt.Println("Luas lingkaran:", luas)
22     fmt.Println("Keliling lingkaran:", keliling)
23 }
```

- Hasil Running

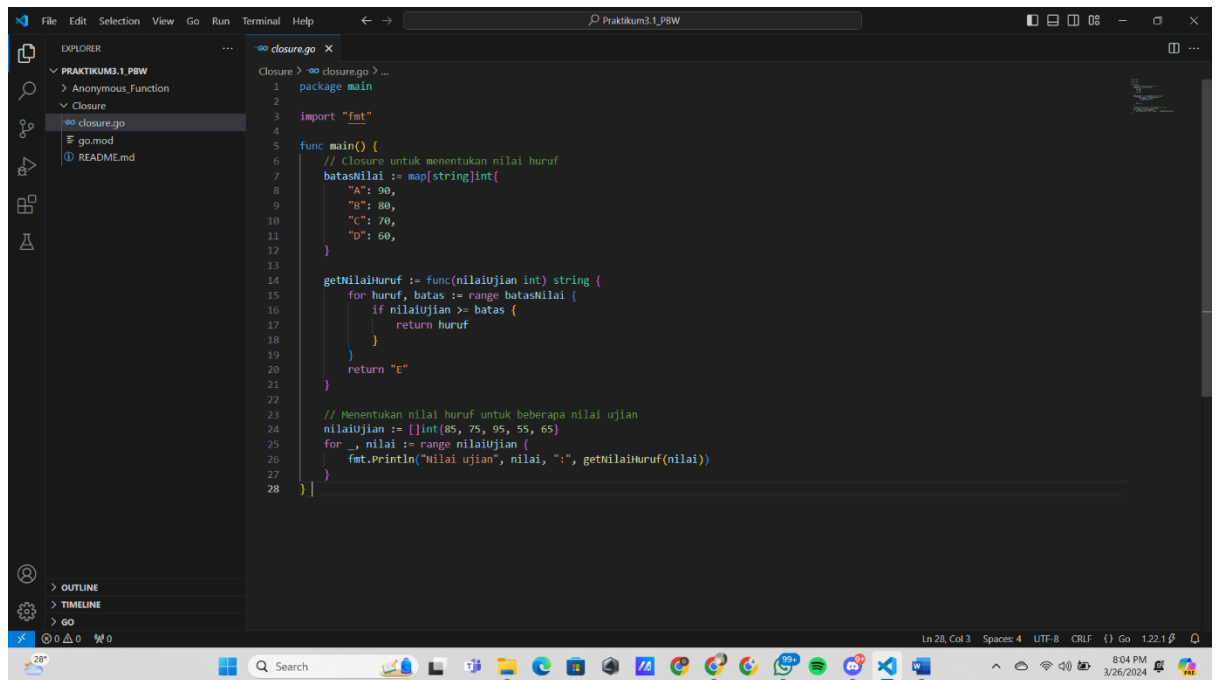


The screenshot shows the same VS Code editor with the `anonymousfunction.go` file. The terminal window at the bottom shows the command `go run .\anonymousfunction.go` being executed. The output displays the calculated area and circumference of a circle with a radius of 5.0.

```
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum3.1_PBM\Anonymous_Function> go run .\anonymousfunction.go
Luas lingkaran: 78.53981633974483
Keliling lingkaran: 31.41592653589793
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum3.1_PBM\Anonymous_Function>
```

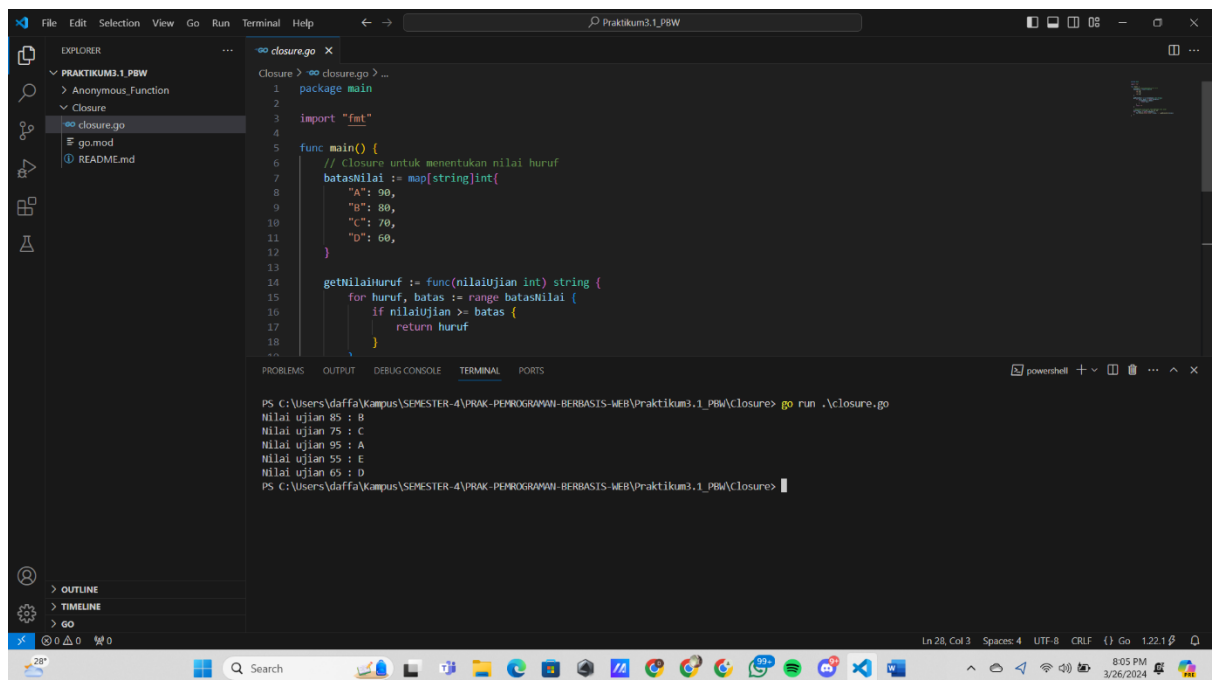
2. Closure

- Source Code



```
1 package main
2
3 import "fmt"
4
5 func main() {
6     // Closure untuk menentukan nilai huruf
7     batasNilai := map[string]int{
8         "A": 90,
9         "B": 80,
10        "C": 70,
11        "D": 60,
12    }
13
14    getNilaiHuruf := func(nilaiUjian int) string {
15        for huruf, batas := range batasNilai {
16            if nilaiUjian >= batas {
17                return huruf
18            }
19        }
20        return "E"
21    }
22
23    // Menentukan nilai huruf untuk beberapa nilai ujian
24    nilaiUjian := []int{85, 75, 95, 55, 65}
25    for _, nilai := range nilaiUjian {
26        fmt.Println("Nilai ujian", nilai, ":", getNilaiHuruf(nilai))
27    }
28 }
```

- Hasil Running



```
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum3.1_PBW\Closure> go run .\closure.go
Nilai ujian 85 : B
Nilai ujian 75 : C
Nilai ujian 95 : A
Nilai ujian 55 : E
Nilai ujian 65 : D
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum3.1_PBW\Closure>
```

3. Link GitHub :

https://github.com/DaffaAbraarSajuti/Praktikum-Pemrograman-Berbasis-Web/tree/master/Praktikum3.1_PBW