TUGAS PRAKTIKUM
PEMROGRAMAN BERBASIS WEB (A)

DI SUSUN OLEH :

NAMA : DAFFA ABRAAR SAJUTI

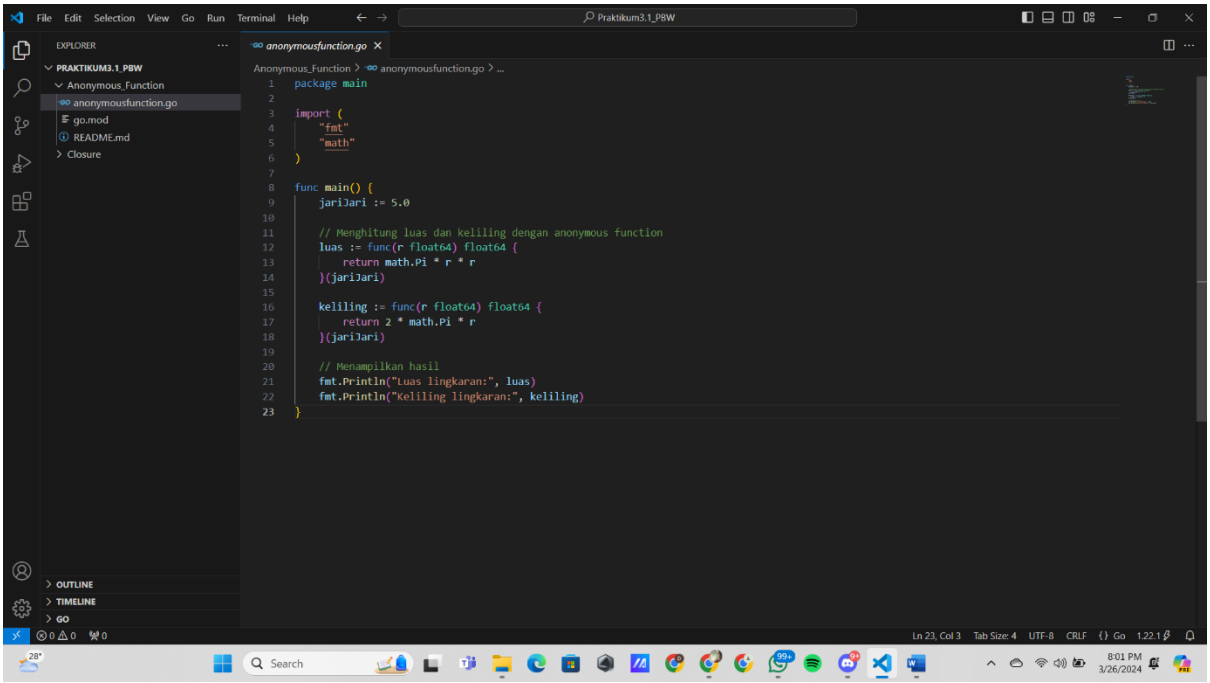
NPM : 4522210040

S1- Teknik Informatika
Fakultas Teknik Universitas Pancasila

2023/2024

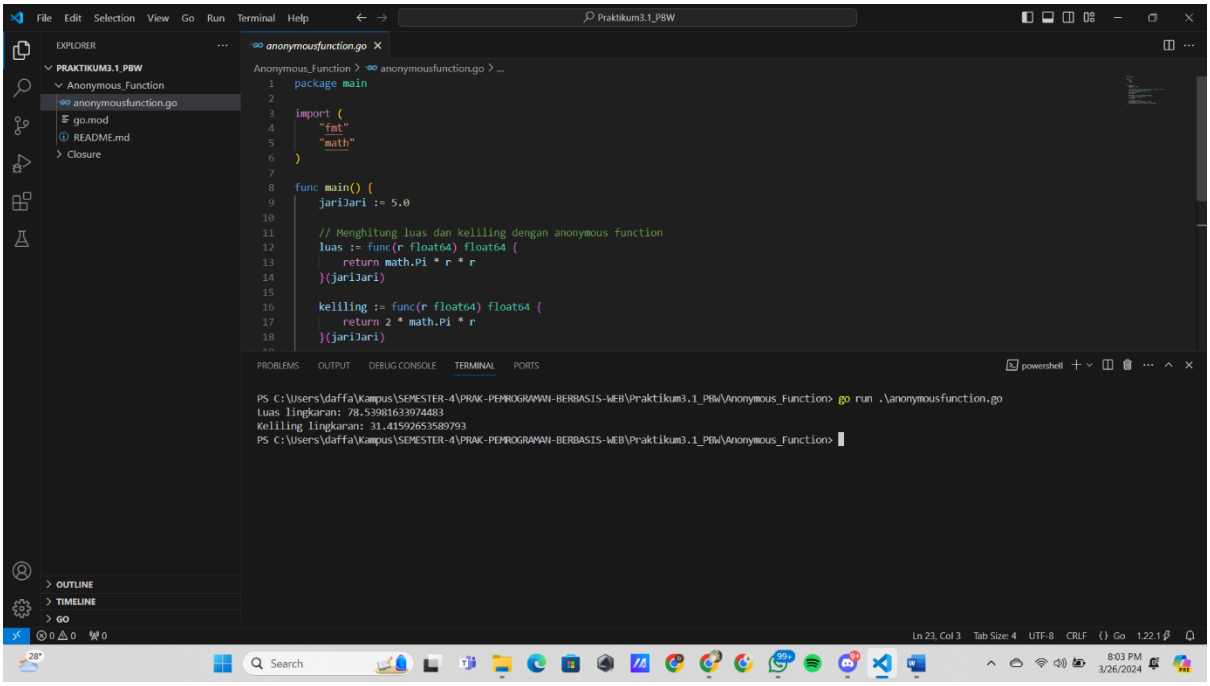
1. Anonymous Function

- ## Source Code



```
package main

import (
    "fmt"
    "math"
)

func main() {
    jariJari := 5.0

    // Menghitung luas dan keliling dengan anonymous function
    luas := func(r float64) float64 {
        return math.Pi * r * r
    }(jariJari)

    keliling := func(r float64) float64 {
        return 2 * math.Pi * r
    }(jariJari)

    // Menampilkan hasil
    fmt.Println("Luas lingkaran:", luas)
    fmt.Println("Keliling lingkaran:", keliling)
}
```

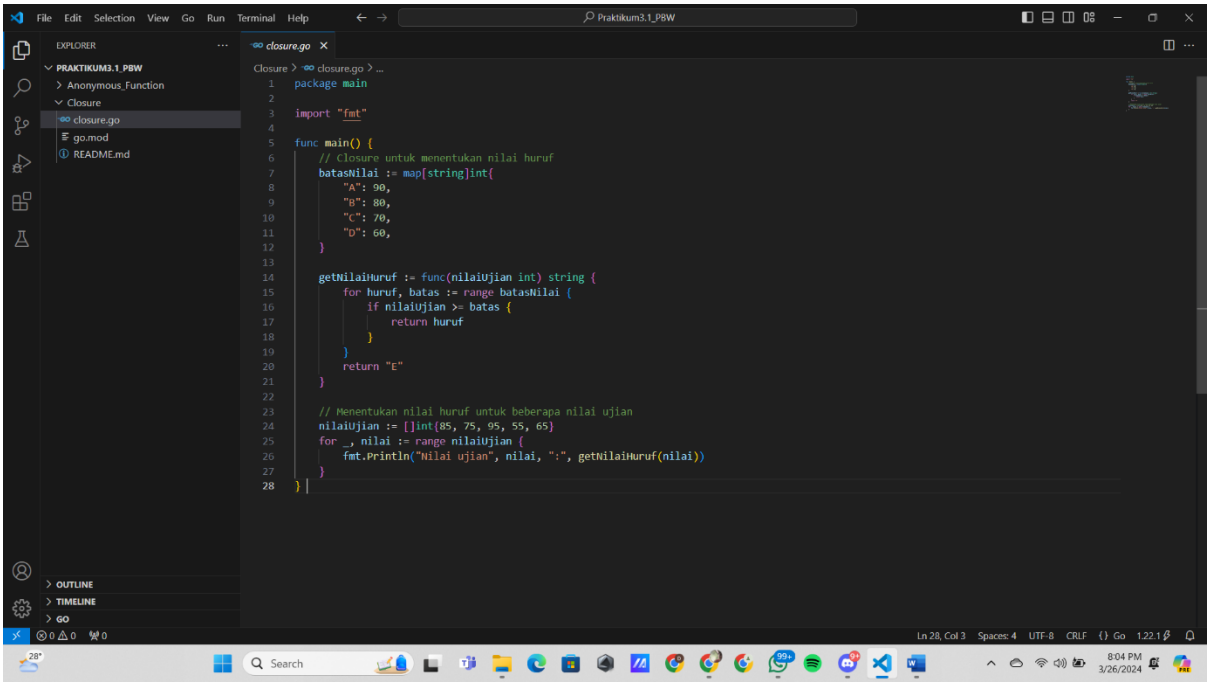
- ## Hasil Running



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

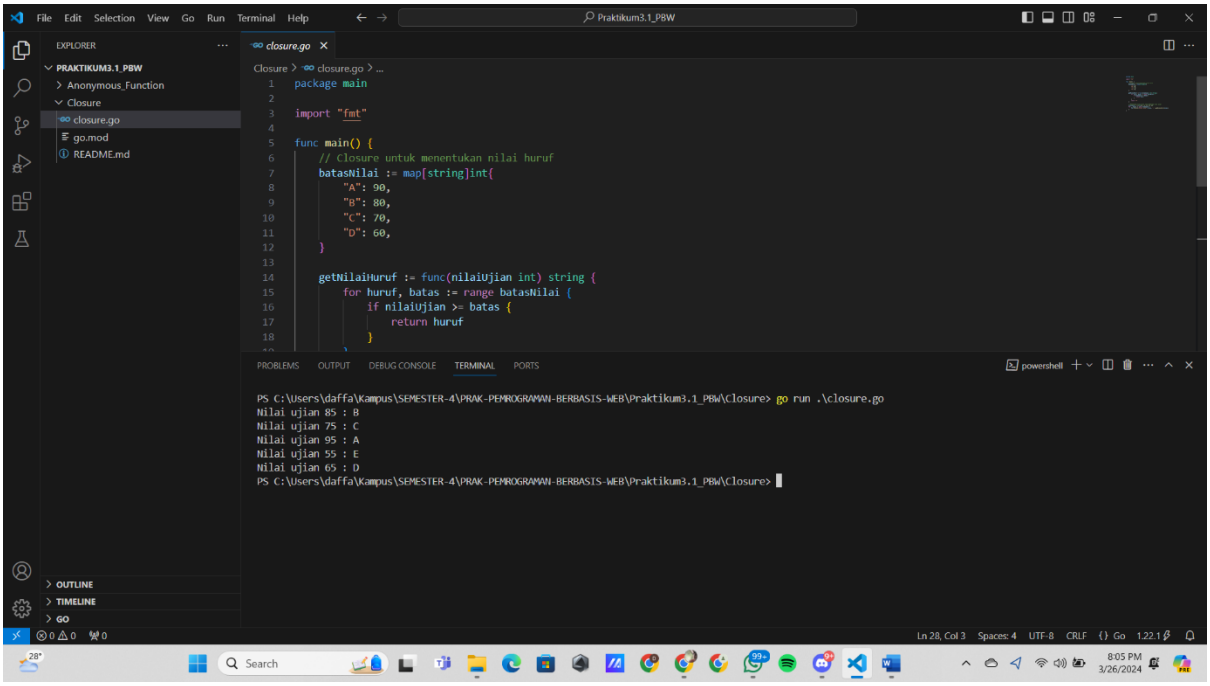
2. Closure

- ### Source Code



```go
package main

import "fmt"

func main() {
    // Closure untuk menentukan nilai huruf
    batasNilai := map[string]int{
        "A": 90,
        "B": 80,
        "C": 70,
        "D": 60,
    }

    getNilaiHuruf := func(nilaiUjian int) string {
        for huruf, batas := range batasNilai {
            if nilaiUjian >= batas {
                return huruf
            }
        }
        return "E"
    }

    // Menentukan nilai huruf untuk beberapa nilai ujian
    nilaiUjian := []int{85, 75, 95, 55, 65}
    for _, nilai := range nilaiUjian {
        fmt.Println("Nilai ujian", nilai, ":", getNilaiHuruf(nilai))
    }
}
```

- ### Hasil Running



```
PS C:\Users\daffa\Kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-WEB\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-WEB\Praktikum3.1_PBW\Closure>
```

3. Link GitHub :

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