

TUGAS PRAKTIKUM
PEMROGRAMAN BERBASIS WEB (A)



DI SUSUN OLEH :

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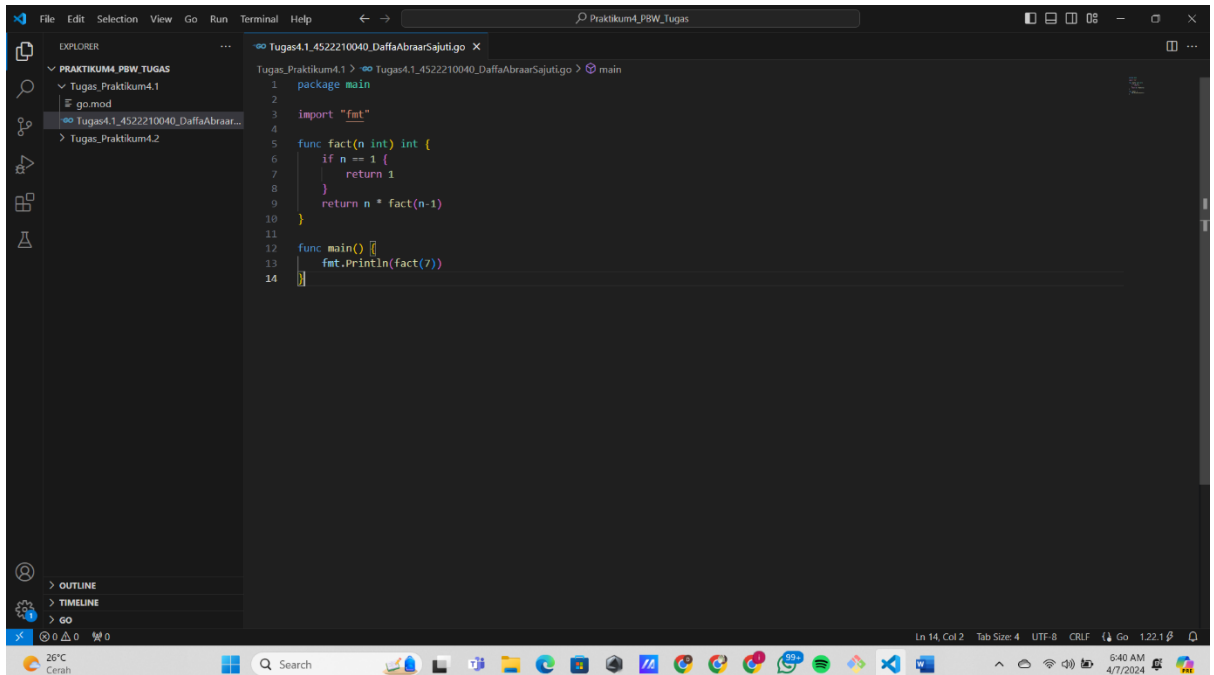
S1- Teknik Informatika

Fakultas Teknik Universitas Pancasila

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1. TUGAS 1

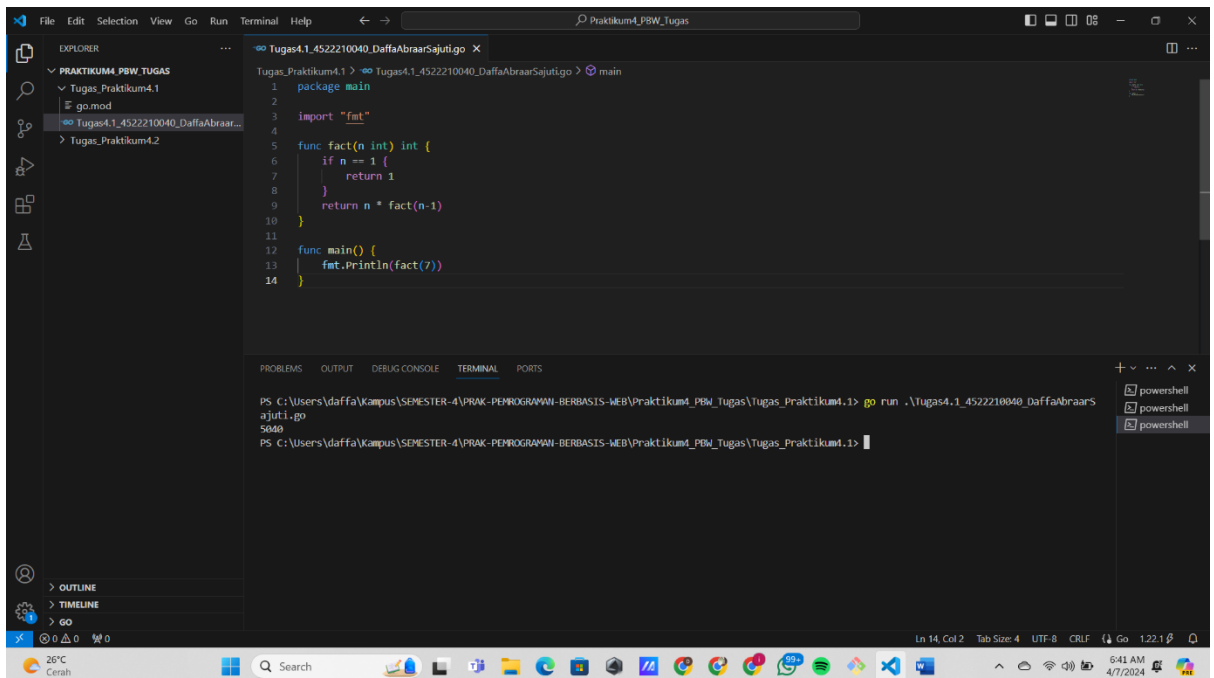
- Source Code



The screenshot shows the Visual Studio Code editor with a Go file named `Tugas4.1_4522210040_DaffaAbraaSajuti.go`. The code defines a `fact` function that calculates the factorial of a number `n` using recursion. The `main` function calls `fact(7)` and prints the result. The Explorer sidebar shows the project structure with folders `PRAKTIKUM4_PBW_TUGAS`, `Tugas_Praktikum4.1`, `go.mod`, and `Tugas_Praktikum4.2`.

```
1 package main
2
3 import "fmt"
4
5 func fact(n int) int {
6     if n == 1 {
7         return 1
8     }
9     return n * fact(n-1)
10 }
11
12 func main() {
13     fmt.Println(fact(7))
14 }
```

- Hasil Running

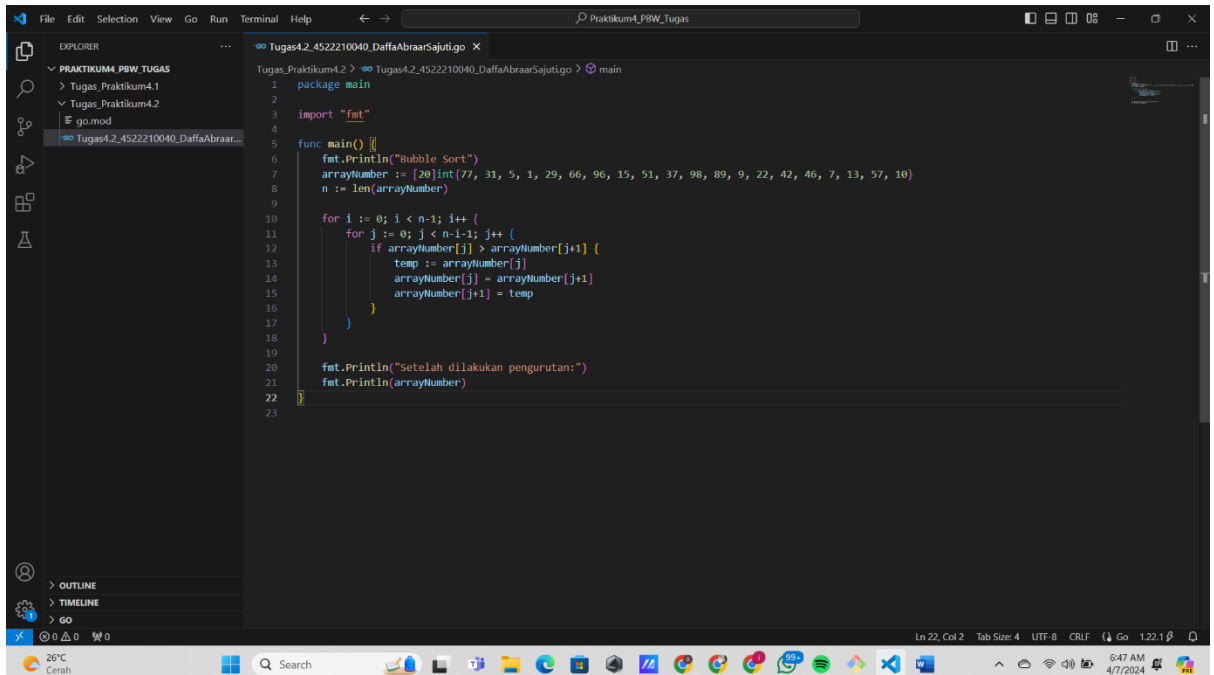


The screenshot shows the Visual Studio Code editor with the same Go file as above. The Terminal panel at the bottom displays the command `go run .\Tugas4.1_4522210040_DaffaAbraaSajuti.go` and its output, which is `5040`. The Explorer sidebar shows the project structure with folders `PRAKTIKUM4_PBW_TUGAS`, `Tugas_Praktikum4.1`, `go.mod`, and `Tugas_Praktikum4.2`.

```
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum4_PBW_Tugas\Tugas_Praktikum4.1> go run .\Tugas4.1_4522210040_DaffaAbraaSajuti.go
5040
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum4_PBW_Tugas\Tugas_Praktikum4.1>
```

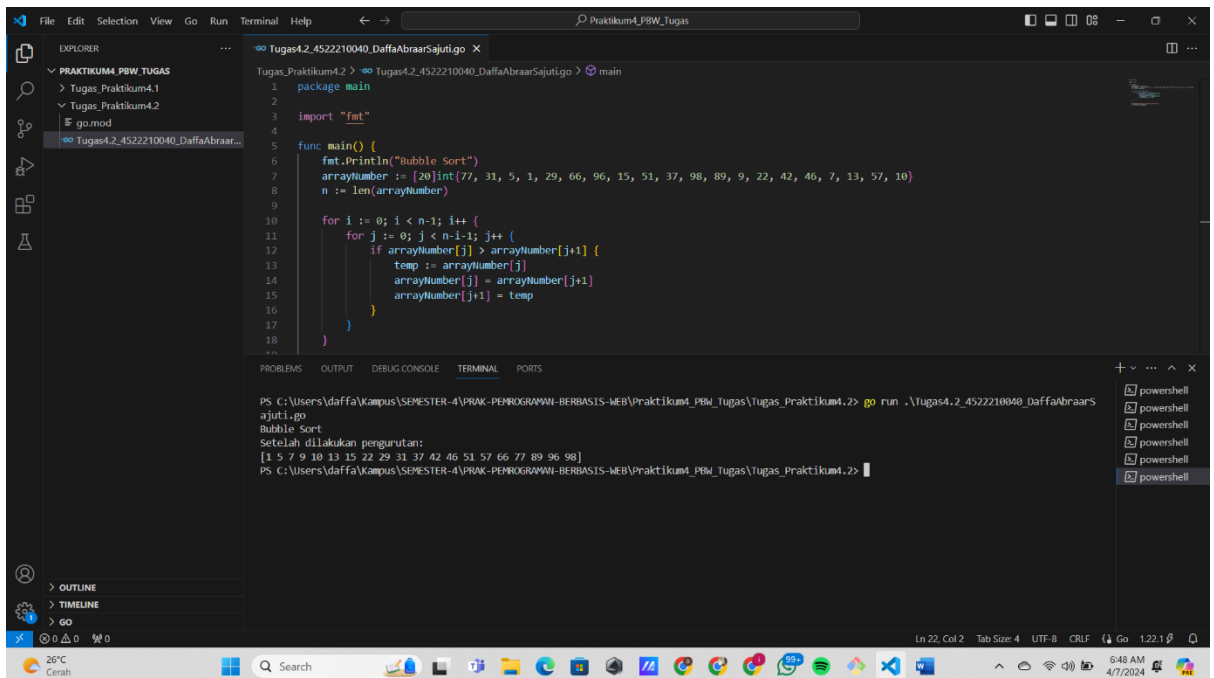
2. TUGAS 2

- Source Code



```
1 package main
2
3 import "fmt"
4
5 func main() {
6     fmt.Println("Bubble Sort")
7     arrayNumber := [20]int{77, 31, 5, 1, 29, 66, 96, 15, 51, 37, 98, 89, 9, 22, 42, 46, 7, 13, 57, 10}
8     n := len(arrayNumber)
9
10    for i := 0; i < n-1; i++ {
11        for j := 0; j < n-1-i; j++ {
12            if arrayNumber[j] > arrayNumber[j+1] {
13                temp := arrayNumber[j]
14                arrayNumber[j] = arrayNumber[j+1]
15                arrayNumber[j+1] = temp
16            }
17        }
18    }
19
20    fmt.Println("Setelah dilakukan pengurutan:")
21    fmt.Println(arrayNumber)
22 }
23
```

- Hasil Running



```
PS C:\Users\daffa\kampus\SEMESTER-4\PRAK-PEMROGRAMAN-BERBASIS-MEB\Praktikum4_PBW_Tugas\Tugas_Praktikum4.2> go run .\Tugas4.2_4522210040_DaffaAbraarsajuti.go
Bubble sort
Setelah dilakukan pengurutan:
[1 5 7 9 10 13 15 22 29 31 37 42 46 51 57 66 77 89 96 98]
```

3. LINK GitHub

https://github.com/DaffaAbraarSajuti/Praktikum-Pemrograman-Berbasis-Web/tree/master/Praktikum4_PBW_Tugas