

LAPORAN AKHIR PRAKTIKUM

Mata Praktikum : Algoritma & Pemrograman 3B
Kelas : 2IA18
Praktikum ke- : 1
Tanggal : 28 November 2024
Materi : Pengenalan Golang
NPM : 51423319
Nama : Agrieva Xananda Pramuditha
Asisten : Mikael
Lembar : 5

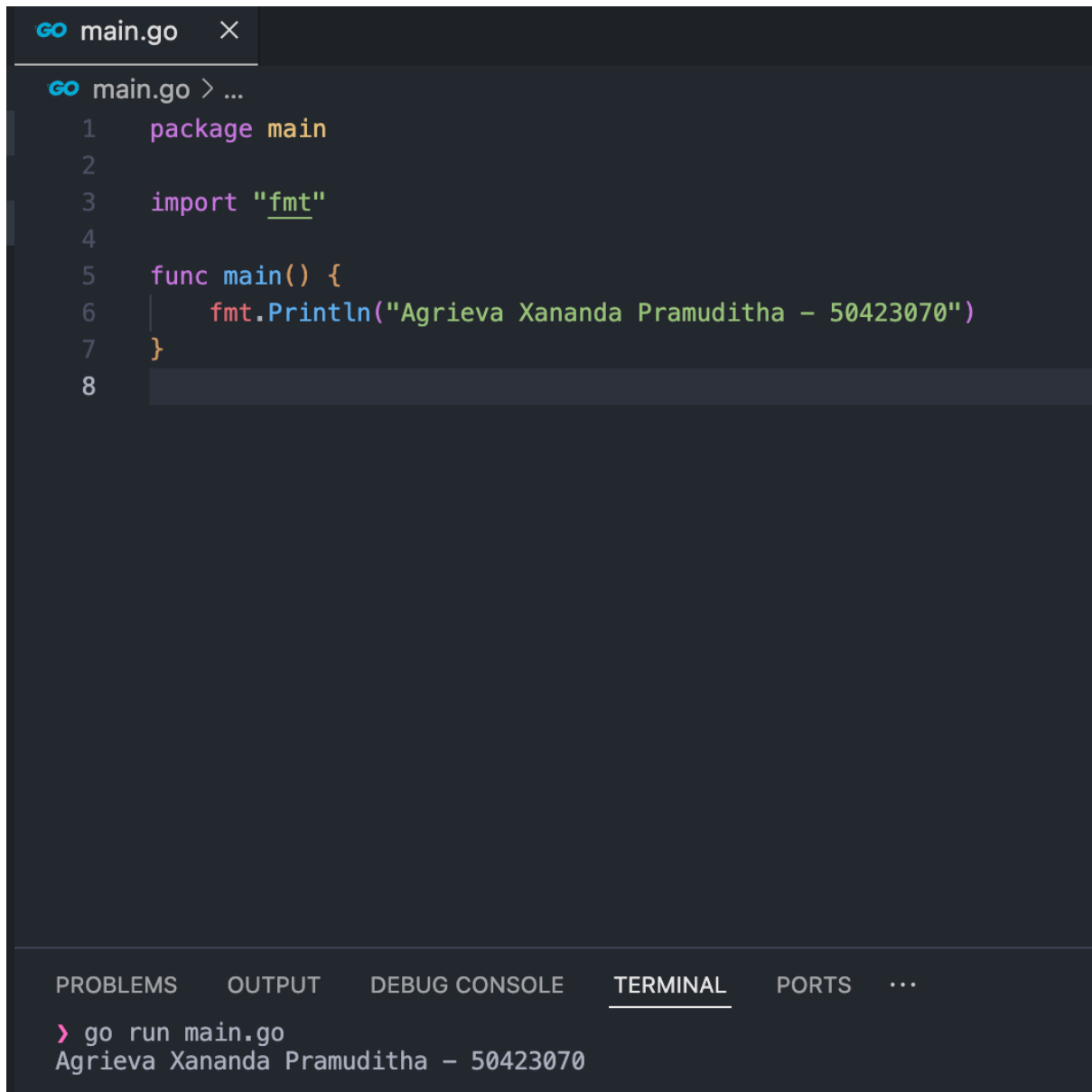


LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

2024

Main.go

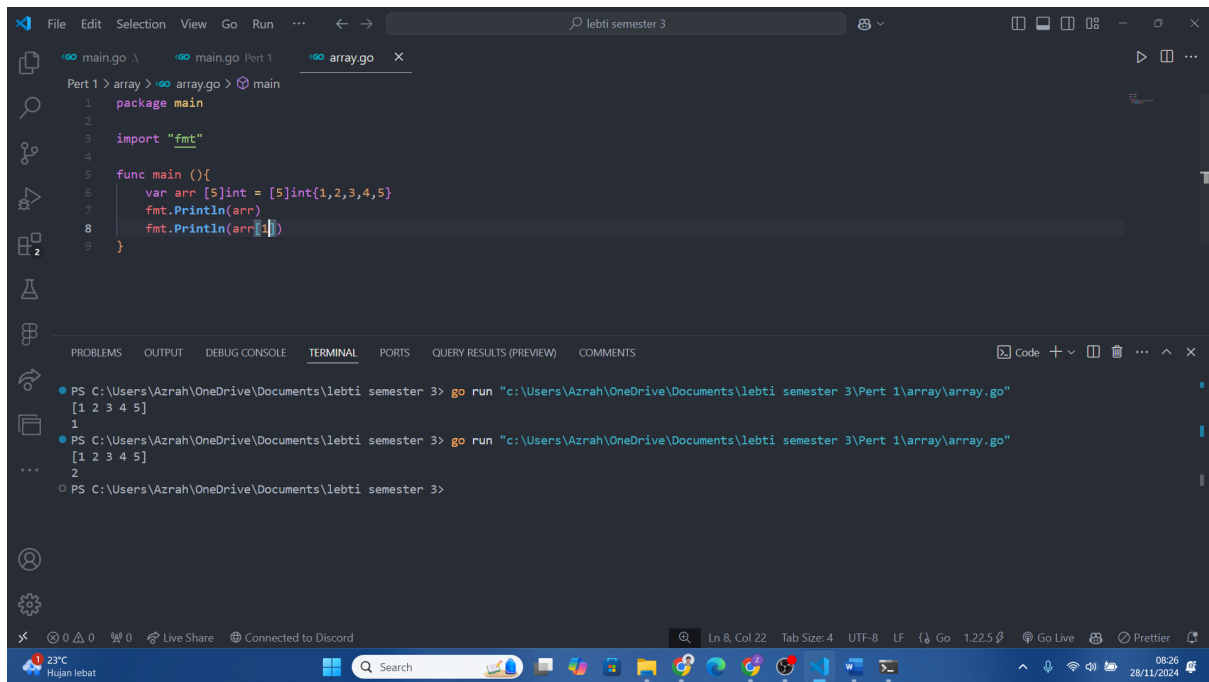


The image shows a Go IDE interface. At the top, a tab labeled 'GO main.go' is open. Below it, the editor displays the following Go code:

```
1 package main
2
3 import "fmt"
4
5 func main() {
6     fmt.Println("Agrieva Xananda Pramuditha - 50423070")
7 }
8
```

At the bottom of the IDE, there is a panel with tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', 'PORTS', and '...'. The 'TERMINAL' tab is selected, showing the command 'go run main.go' and its output: 'Agrieva Xananda Pramuditha - 50423070'.

Array.go

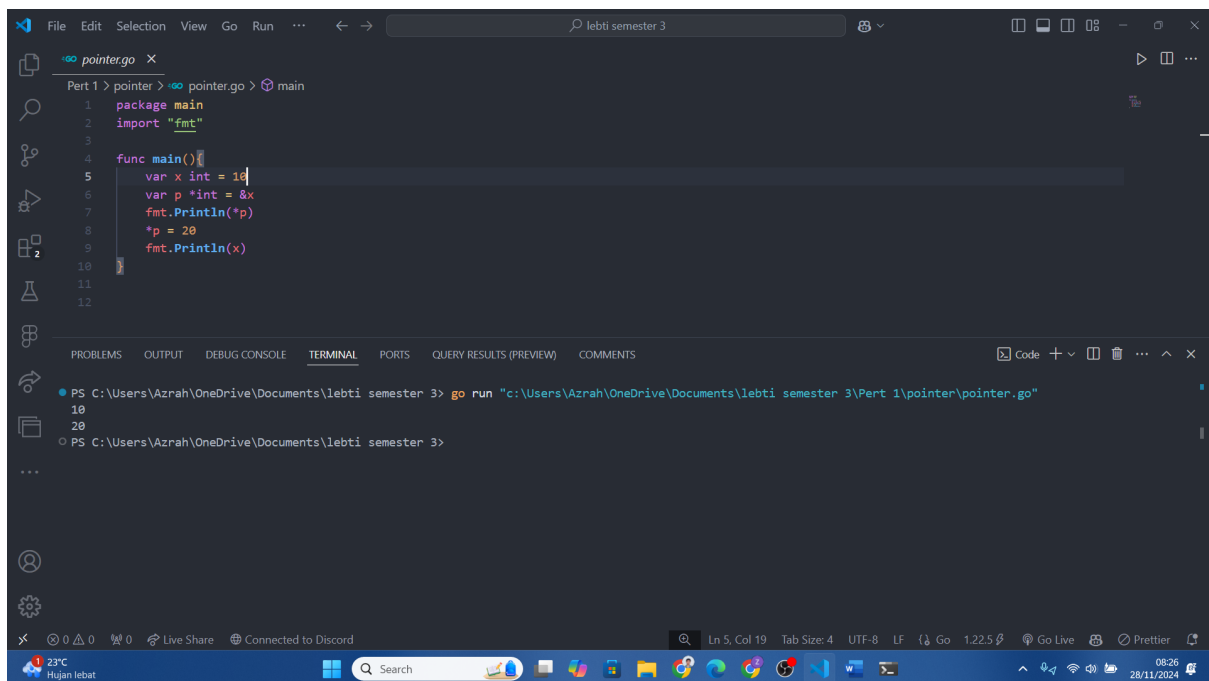


The screenshot shows the Visual Studio Code editor with a Go project named 'lebti semester 3'. The file 'array.go' is open, showing a Go program that prints an array. The terminal output shows the program being run twice, both times printing the array [1 2 3 4 5].

```
1 package main
2
3 import "fmt"
4
5 func main () {
6     var arr [5]int = [5]int{1,2,3,4,5}
7     fmt.Println(arr)
8     fmt.Println(arr[1])
9 }
```

```
PS C:\Users\Azrah\OneDrive\Documents\lebti semester 3> go run "c:\Users\Azrah\OneDrive\Documents\lebti semester 3\Pert 1\array\array.go"
[1 2 3 4 5]
1
PS C:\Users\Azrah\OneDrive\Documents\lebti semester 3> go run "c:\Users\Azrah\OneDrive\Documents\lebti semester 3\Pert 1\array\array.go"
[1 2 3 4 5]
2
PS C:\Users\Azrah\OneDrive\Documents\lebti semester 3>
```

Pointer.go

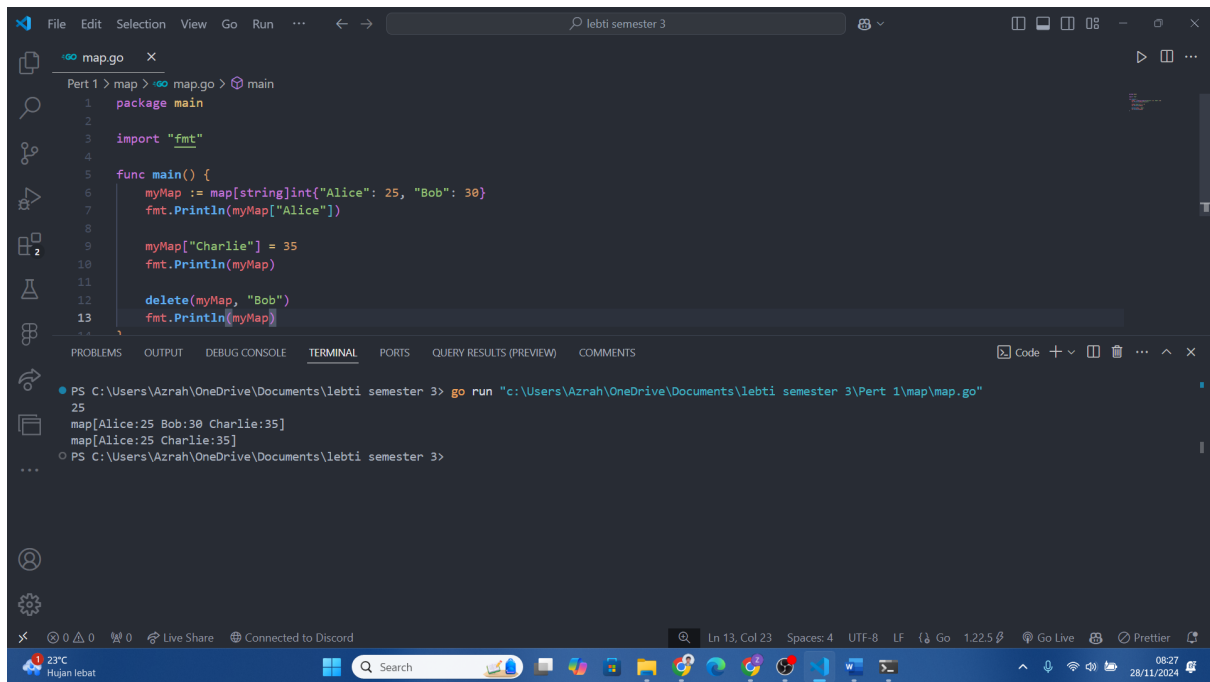


The screenshot shows the Visual Studio Code editor with a Go project named 'lebti semester 3'. The file 'pointer.go' is open, showing a Go program that demonstrates pointer arithmetic. The terminal output shows the program being run, printing the values 10 and 20.

```
1 package main
2 import "fmt"
3
4 func main() {
5     var x int = 10
6     var p *int = &x
7     fmt.Println(*p)
8     *p = 20
9     fmt.Println(x)
10 }
11
12
```

```
PS C:\Users\Azrah\OneDrive\Documents\lebti semester 3> go run "c:\Users\Azrah\OneDrive\Documents\lebti semester 3\Pert 1\pointer\pointer.go"
10
20
PS C:\Users\Azrah\OneDrive\Documents\lebti semester 3>
```

Map.go



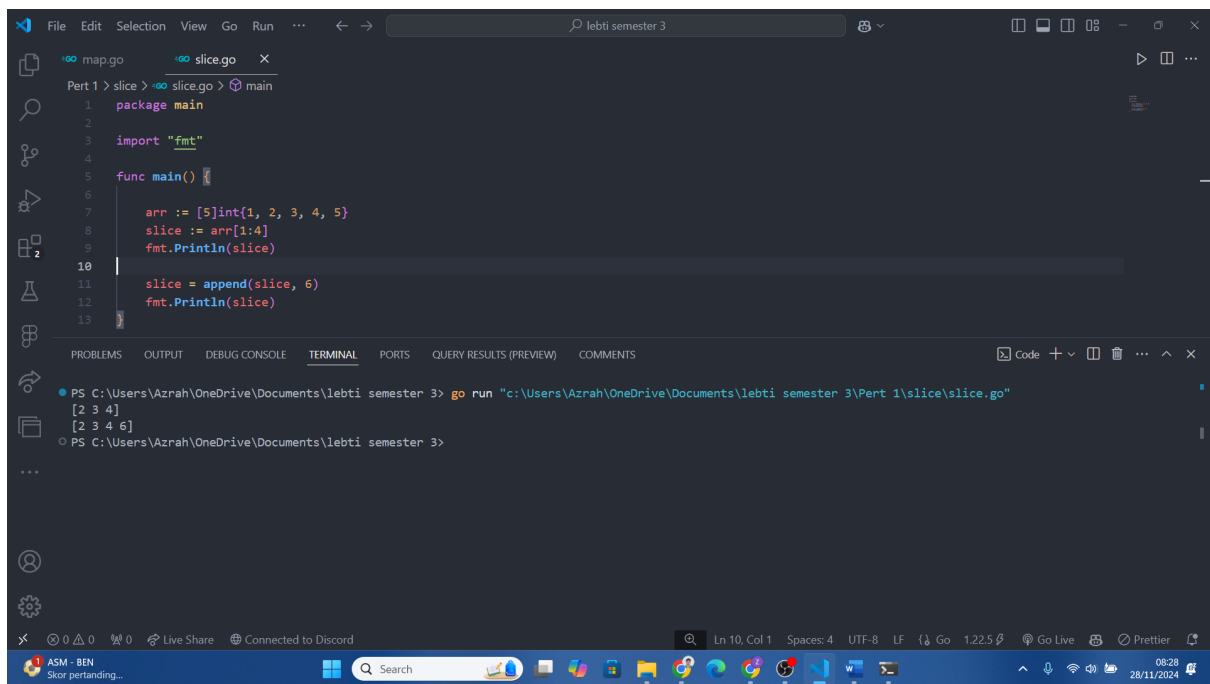
The screenshot shows the VS Code editor with a file named `map.go` open. The code defines a `main` function that creates a map, prints its value for "Alice", adds a new entry for "Charlie", and then deletes the entry for "Bob" before printing the map again.

```
1 package main
2
3 import "fmt"
4
5 func main() {
6     myMap := map[string]int{"Alice": 25, "Bob": 30}
7     fmt.Println(myMap["Alice"])
8
9     myMap["Charlie"] = 35
10    fmt.Println(myMap)
11
12    delete(myMap, "Bob")
13    fmt.Println(myMap)
```

The terminal output shows the execution of `go run "c:\Users\Azrah\OneDrive\Documents\lebti semester 3\Pert 1\map.go"`, resulting in the following output:

```
25
map[Alice:25 Bob:30 Charlie:35]
map[Alice:25 Charlie:35]
```

Slice.go



The screenshot shows the VS Code editor with a file named `slice.go` open. The code defines a `main` function that creates an array, slices it to get the first four elements, prints the slice, appends the value 6 to the slice, and prints the updated slice.

```
1 package main
2
3 import "fmt"
4
5 func main() {
6
7     arr := [5]int{1, 2, 3, 4, 5}
8     slice := arr[1:4]
9     fmt.Println(slice)
10
11    slice = append(slice, 6)
12    fmt.Println(slice)
13}
```

The terminal output shows the execution of `go run "c:\Users\Azrah\OneDrive\Documents\lebti semester 3\Pert 1\slice\slice.go"`, resulting in the following output:

```
[2 3 4]
[2 3 4 6]
```

Struct.go

