

### Soal 1. Cetak String

```
package main

import "fmt"

func main() {
    var n int
    var x string

    fmt.Scan(&n, &x)
    fmt.Println("")
    for i := 0; i < n; i++ {
        fmt.Println(x)
    }
}

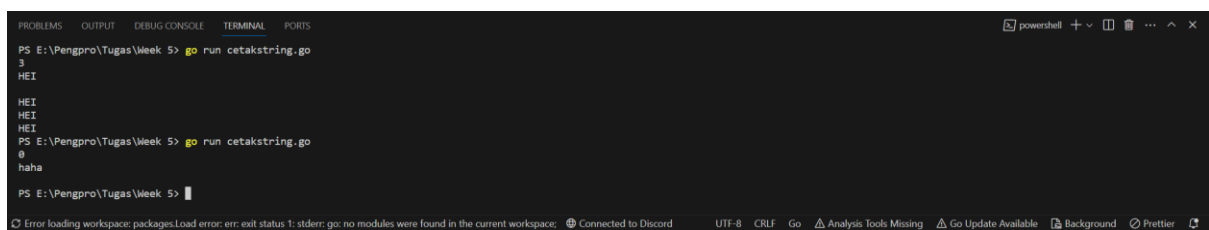
// Program cetakstring

// Kamus
// n, i: Integer
// x: String

// Algoritma
// Input(n, x)

// For i <- 0 to n - 1 do
//     Output(x)
// End For

// End Program
```



```
PS E:\Pengpro\Tugas\Week 5> go run cetakstring.go
3
HEI
HEI
HEI
PS E:\Pengpro\Tugas\Week 5> go run cetakstring.go
0
haha
PS E:\Pengpro\Tugas\Week 5>
```

### Soal 2. Bidang Persegi

```
package main

import "fmt"

func main() {
    var n, s, l, k int
```

```

    fmt.Scan(&n)
    fmt.Println("")
    for i := 0; i < n; i++ {
        fmt.Scan(&s)
        l = s * s
        k = s * 4
        fmt.Println(l, k)
    }
}

// Program bidangpersegi

// Kamus
// n, s, l, k, i: Integer

// Algoritma
// Input(n)

// For i <- 0 to n - 1 do
//     Input(s)
//     l <- s * s
//     k <- s * 4
//     Output(l, k)
// End For

// End Program

```

```

PS E:\Pengpro\Tugas\Week 5> go run bidangpersegi.go
3 5 4 7
25 20
16 16
49 28
PS E:\Pengpro\Tugas\Week 5> go run bidangpersegi.go
2 10 20
100 40
400 80
PS E:\Pengpro\Tugas\Week 5>

```

### Soal 3. Ngoding

```

package main

import (
    "fmt"
)

func main() {
    var n, x, hasil, sum, i float64

    fmt.Scan(&n)

    sum = 0
    for i = 0; i < n; i++ {
        fmt.Scan(&x)
    }
}

```

```

        sum += x
    }

    hasil = sum / n

    fmt.Printf("%.3f" , hasil)
}

// Program ngoding

// Kamus
// n,x,i,hasil,sum,i : Real

// Algoritma
// Input (n)
// sum <- 0

// For i <- 0 to n - 1 do
//   Input (x)
//   sum <- sum + x
// End For

// hasil <- sum / n
// Output (hasil)
// End Program

```

```

PS E:\Pengpro\Tugas\Week 5> go run ngoding.go
7 8 5 6 5 4 5 6
5.571
PS E:\Pengpro\Tugas\Week 5>

```

The screenshot shows a PowerShell terminal window with the following content:

- Tab bar: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS
- Terminal title: powershell
- Command prompt: PS E:\Pengpro\Tugas\Week 5>
- Command entered: go run ngoding.go
- Input provided: 7 8 5 6 5 4 5 6
- Output displayed: 5.571
- Command prompt: PS E:\Pengpro\Tugas\Week 5>
- Status bar: Error loading workspace: packages.Load error: err: exit status 1: stderr: go: no modules were found in the current workspace; Connected to Discord; UTF-8; CRLF; Go; Analysis Tools Missing; Go Update Available; Background; Prettier

#### Soal 4. Faktorial

```

package main

import (
    "fmt"
)

func main() {
    var n int

    fmt.Scan(&n)

    for i := n - 1; i > 0; i-- {

```

```

        n *= i
    }

    fmt.Println(n)
}

// Program faktorial

// Kamus
// n,i : Integer

// Algoritma
// Input(n)

// For i <- n - 1 down to 1 do
//     n *= i
// End for

// Output(n)
// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas\Week 5> go run faktorial.go
5
120
PS E:\Pengpro\Tugas\Week 5> go run faktorial.go
1
1
PS E:\Pengpro\Tugas\Week 5> go run faktorial.go
10
3628800
PS E:\Pengpro\Tugas\Week 5>

```

## Soal 5. Soal Faktor bilangan

```

package main

import (
    "fmt"
)

func main() {
    var n int
    var faktor bool
    fmt.Scan(&n)

    for i := 1; i <= n; i++ {
        faktor = n % i == 0

        fmt.Println(i , faktor)
    }
}

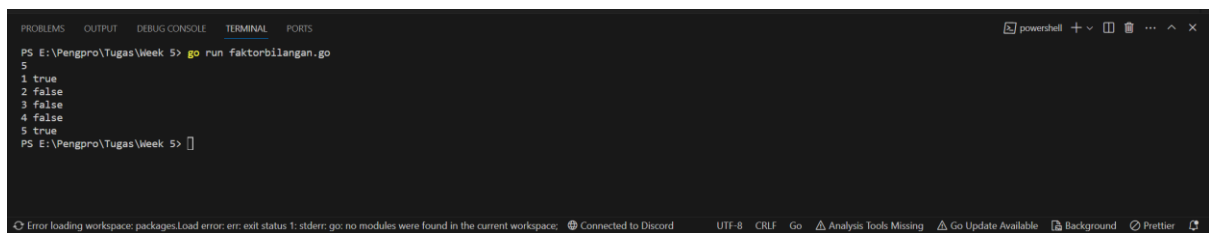
// Program faktorbilangan

```

```
// // Kamus
// n, i: Integer
// faktor : bool

// Algoritma
// Input(n)

// For i <- 1 to n do
//   faktor <- n mod i == 0
//   Output(i , faktor)
// End For
// End Program
```



The screenshot shows a Visual Studio Code interface with a terminal window open. The terminal title is "powershell". The command prompt shows the user is in the directory "E:\Pengpro\Tugas\Week 5" and has executed the command "go run faktorbilangan.go". The program's output is as follows:

```
PS E:\Pengpro\Tugas\Week 5> go run faktorbilangan.go
5
1 true
2 false
3 false
4 false
5 true
PS E:\Pengpro\Tugas\Week 5>
```

The bottom status bar of VS Code contains several messages and icons: "Error loading workspace: packagesLoad error: err: exit status 1: stderr: go: no modules were found in the current workspace:", "Connected to Discord", "UTF-8", "CRLF", "Go", "Analysis Tools Missing", "Go Update Available", "Background", "Prettier", and a refresh icon.