

**LAPORAN PRAKTIKUM**  
**Algoritma Pemrograman**

**EVALUASI**



**Disusun oleh:**

**DYAH IMANSARI**

**109082500130**

**S1IF-13-02**

**PROGRAM STUDI S1 INFORMATIKA**  
**FAKULTAS INFORMATIKA**  
**TELKOM UNIVERSITY PURWOKERTO**  
**2025**

## SOAL

### 1. SOAL 1

#### Source Code

```
package main

import "fmt"

func main() {

    var n, i int

    var hasil int

    hasil = 0


    fmt.Print("input:")

    fmt.Scanln(&n)

    for i = 1; i <= n; i++ {

        hasil += i

        fmt.Print(i/2, " ")

    }

}
```

#### Screenshoot program

```
soal1-genap.go > main
1 package main
2 import "fmt"
3 func main() {
4     var n, i int
5     var hasil int
6     hasil = 0
7
8     fmt.Print("input:")
9     fmt.Scanln(&n)
10    for i = 1; i <= n; i++ {
11        hasil += i
12        fmt.Print(i/2, " ")
13    }
14 }
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal1-genap.go"
input:5
1 2 4 5
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal1-genap.go"
input:5
1 2 3 4 5
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal1-genap.go"
# command-line-arguments
.\soal1-genap.go:5:6: declared and not used: hasil
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal1-genap.go"
input:5
1 0 1 0 1
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal1-genap.go"
input:5
0 1 1 2 2
PS C:\Users\LENOVO\Asesmen>
```

File Edit Selection View Go Run ...

EXPLORER

- OPEN EDITORS
  - Welcome
  - TEST.go
  - guided1.go CON...
  - guided2.go cont...
  - Settings
- ALPRO1
  - CONTOH1
    - guided1.go
    - contoh2
  - guided2.go
  - TEST.go

CONTOH1 > guided1.go > main

```
1 package main
2 import "fmt"
3 func main() {
4     var mk string = "Algoritma dan Pemrograman"
5     var kode, sks string
6     fmt.Print("Tuliskan kode MK dan SKS: ")
7     fmt.Scan(&kode, &sks)
8     fmt.Println("Kredit MK",kode,"-",mk,"1 adalah",sks,"SKS")
9 }
```

PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS

```
PS C:\VALPRO1> go run "c:\VALPRO1\contoh2\guided2.go"
Masukkan jari-jari: 5
Luas lingkaran: 78.5
Keliling lingkaran: 31.40
PS C:\VALPRO1>
History restored
PS C:\VALPRO1>
History restored
PS C:\VALPRO1>
```

"Tidak berjudul - Notepad

File Edit Format Lihat Bantuan

NIM  
KELAS  
NAMAa

Brs 3, Kol 6 100% Windows (CRLF) UTF-8

## Deskripsi program

Jelaskan kode yang ada di source code, semakin detail semakin baik nilainya

## 2. SOAL 2

### Source Code

```
package main

import "fmt"

func main() {

    var x, y, i int

    var hasil int

    hasil = 1


    fmt.Scan(&x, &y)

    for i = x; i <= y; i++ {

        hasil = hasil * i

    }

    fmt.Println("Jumlah bakteri terakhir = ", hasil)

}
```

**Screenshoot program**

```
soal2-genap.go > main
1 package main
2 import "fmt"
3 func main() {
4     var x, y, i int
5     var hasil int
6     hasil = 1
7
8     fmt.Scan(&x, &y)
9     for i = x; i <= y; i++ {
10         hasil = hasil * i
11     }
12     fmt.Println("Jumlah bakteri terakhir = ", hasil)
13 }
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal2-genap.go"
2 4
Jumlah bakteri terakhir = 24
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal2-genap.go"
3 5
Jumlah bakteri terakhir = 60
PS C:\Users\LENOVO\Asesmen>
```

### Deskripsi program

Scan variable x sebagai hari ke-x bakteri itu dan variable y sebagai hari terakhir bakteri berkembang biak. Untuk mendapatkan jumlah bakteri terakhir dari x sampai y berarti Batasan loop yaitu for i= x; i <= y; i++ dan dihitung menggunakan hasil = hasil \* i, hasil = 1 untuk membuat perkalian menghasilkan i itu sendiri.

## 3. SOAL 3

### Source Code

```
package main

import "fmt"

func main() {

    var Peti, Karung, Ikat, Keping int

    fmt.Scan(&Keping)

    Peti = Keping / 800

    Karung = (Keping % 800) / 80
```

```

        Ikat = (Keping % 800 % 80) / 8

        Keping = Keping % 800 % 80 % 8

        fmt.Println(Peti, "peti,", Karung, "karung,", Ikat,
            "ikat,", Keping, "dan keping")
    }
}

```

### Screenshoot program

The screenshot shows a Go IDE with a file named `soal3-genap.go`. The code defines a `main` function that takes an integer `Keping` as input. It calculates the number of `Peti` (boxes), `Karung` (bags), `Ikat` (bundles), and the remaining `Keping` (leftover) based on the following logic:

- `Peti = Keping / 800`
- `Karung = (Keping % 800) / 80`
- `Ikat = (Keping % 800 % 80) / 8`
- `Keping = Keping % 800 % 80 % 8`

The program is executed twice. The first run uses the input `800`, resulting in `1 peti, 0 karung, 0 ikat, 0 dan keping`. The second run uses the input `1053`, resulting in `1 peti, 3 karung, 1 ikat, 5 dan keping`.

```

1 package main
2 import "fmt"
3 func main() {
4     var Peti, Karung, Ikat, Keping int
5
6     fmt.Scan(&Keping)
7     Peti = Keping / 800
8     Karung = (Keping % 800) / 80
9     Ikat = (Keping % 800 % 80) / 8
10    Keping = Keping % 800 % 80 % 8
11
12    fmt.Println(Peti, "peti,", Karung, "karung,", Ikat, "ikat,", Keping, "dan keping")
13 }

```

```

PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\tempCodeRunnerFile.go"
800
1 peti, 0 karung, 0 ikat, 0 dan keping
PS C:\Users\LENOVO\Asesmen> go run "c:\Users\LENOVO\Asesmen\soal3-genap.go"
1053
1 peti, 3 karung, 1 ikat, 5 dan keping
PS C:\Users\LENOVO\Asesmen>

```

### Deskripsi program

Dari soal berarti 1 peti = 800 keping, 1 karung = 80 keping. Untuk mendapatkan peti berarti  $\text{keping} / 800$ , karung berarti hasil sisa keping dari pembagian tadi bagi 8, ikat berarti sisa pembagian sebelumnya dibagi 8, dan keping berarti sisa pembagian semua tadi.