

Soal 1. Soal Waktu

```
package main

import (
    "fmt"
)

func main() {
    var s, j, m, d int;

    fmt.Scan(&s)
    fmt.Println("")

    j = s / 3600
    s = s % 3600

    m = s / 60

    d = s % 60

    fmt.Println(j, "jam", m, "menit dan", d, "detik")
}

// Program waktu

// Kamus
// s, j, m, d : Integer

// Algoritma
// Input(s)
// Output("")

// j <- s / 3600
// s <- s mod 3600

// m <- s / 60

// d <- s mod 60

// Output(j, "jam", m, "menit dan", d, "detik")
// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\waktu.go"
32
0 jam 0 menit dan 32 detik
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\waktu.go"
300
0 jam 5 menit dan 0 detik
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\waktu.go"
8432
2 jam 20 menit dan 32 detik
PS E:\Pengpro\Tugas> █
```

Soal 2. Soal Voucher

```
package main

import (
    "fmt"
)

func main() {
    var x, a, b, c, d int
    var diskon, cashback bool

    fmt.Scan(&x)
    fmt.Println("")

    a = x / 1000
    b = (x / 100) % 10
    c = (x / 10) % 10
    d = x % 10

    diskon = ((b * 10 + c) % 2 == 0)
    cashback = d != 0 && (a + c) % d == 0

    fmt.Println("Diskon?", diskon)
    fmt.Println("Cashback?", cashback)
}

// Program voucher

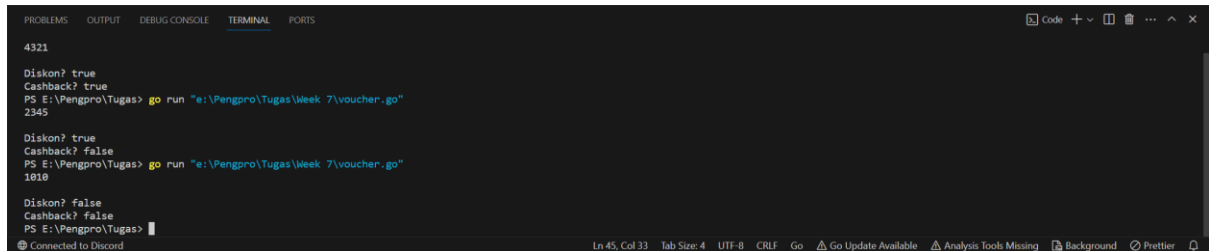
// Kamus
// x, a, b, c, d : Integer
// diskon, cashback as Boolean

// Algoritma
// Input(x)
// Output("")

// a <- x / 1000
// b <- (x / 100) mod 10
// c <- (x / 10) mod 10
// d <- x mod 10
```

```
// diskon <- ((b * 10 + c) mod 2 == 0)
// cashback <- d != 0 and (a + c) mod d == 0

// Output("Diskon?", diskon)
// Output("Cashback?", cashback)
```



```
4321
Diskon? true
Cashback? true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\voucher.go"
2345

Diskon? true
Cashback? false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\voucher.go"
1010

Diskon? false
Cashback? false
PS E:\Pengpro\Tugas> 
```

Soal 3. Soal Jumlah Bilangan

```
package main

import (
    "fmt"
)

func main() {
    var x, total int

    fmt.Scan(&x)
    fmt.Println("")

    for x > 0 {
        total += x % 10
        x /= 10
    }

    fmt.Println(total)
}

// Program jumlahbilangan

// Kamus
// x, total : Integer

// Algoritma
// Input(x)
// Output("")

// total <- 0

// while x > 0:
```

```
// total <- total + (x mod 10)
// x <- x div 10
// End While

// Output(total)
// End Program
```



The screenshot shows a VS Code terminal window with the following content:

```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\jumlahbilangan.go"
123

6
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\jumlahbilangan.go"
5555555555

50
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\jumlahbilangan.go"
1010

2
PS E:\Pengpro\Tugas>
```

The terminal window has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The status bar at the bottom shows "Connected to Discord", "Ln 38, Col 15 (430 selected)", "Tab Size: 4", "UTF-8", "CRLF", "Go", "Go Update Available", "Analysis Tools Missing", "Background", "Prettier", and a search icon.

Soal 4. Soal Konsekutif

```
package main

import (
    "fmt"
);

func main() {
    var x, digitterakhir, digitawal int;
    var isOne bool;

    fmt.Scan(&x);

    isOne = true;

    for x > 0 && isOne == true {
        digitterakhir = x % 10;
        x /= 10;
        digitawal = x % 10
        isOne = (digitterakhir - digitawal == 1) || (digitawal - digitterakhir
== 1);
        x /= 10
    }

    fmt.Println(isOne);
}

// Program konsekutif

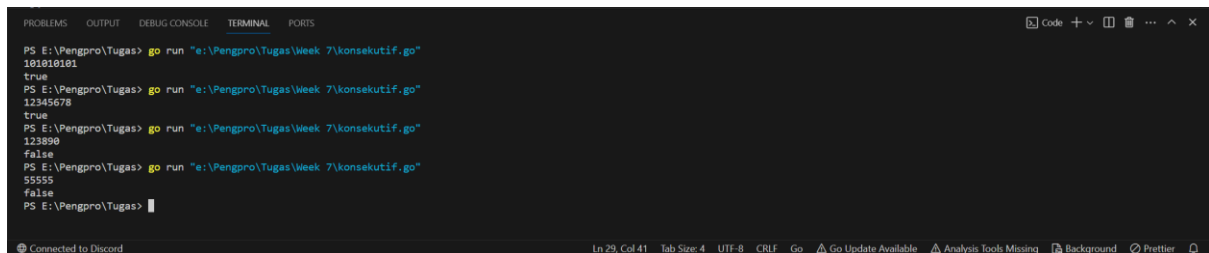
// Kamus
// x, digitterakhir, digitawal : Integer
// isOne : Boolean
```

```
// Algoritma
// Input(x)

// isOne <- true

// while x > 0 and isOne == true:
//   digitterakhir <- x mod 10
//   x <- x div 10
//   digitawal <- x mod 10
//   isOne <- (digitterakhir - digitawal == 1) or (digitawal - digitterakhir == 1)
//   x <- x div 10
// End While

// Output(isOne)
// End Program
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\konsektif.go"
101010101
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\konsektif.go"
12345678
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\konsektif.go"
123890
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\konsektif.go"
55555
false
PS E:\Pengpro\Tugas>
```

Soal 5. Soal Fibonacci

```
package main

import (
    "fmt"
)

func main() {
    var n int
    var a, b int;

    fmt.Scan(&n)
    fmt.Println("")

    a = 0
    b = 1
    for i := 0; i <= n; i++ {
        fmt.Print(a, " ")

        a, b = b, a + b
    }
}
```

```

}

// Program fibonacci

// Kamus
// n, a, b, i : Integer

// Algoritma
// Input(n)
// Output("")

// a <- 0
// b <- 1

// for i <- 0 to n:
//   Output(a + " ")
//   a, b <- b, a + b
// End For

// End Program

```



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\tempCodeRunnerFile.go"
2
0 1 1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\tempCodeRunnerFile.go"
8
0 1 1 2 3 5 8 13 21
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 7\tempCodeRunnerFile.go"
15
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610
PS E:\Pengpro\Tugas>

```

Ln 42, Col 15 (463 selected) Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier