

Soal 1. Login

```
package main

import (
    "fmt"
)

func main() {
    var attempts int
    var username, password string

    attempts = -1
    for username != "admin" || password != "admin" {
        fmt.Scan(&username, &password)
        attempts++
    }

    fmt.Println(attempts)
    fmt.Println("Login berhasil")
}

// Program login

// Kamus
// attempts : Integer
// username, password : String

// Algoritma
// attempts <- -1
// while username != "admin" or password != "admin" do
//   Input(username, password)
//   attempts <- attempts + 1
// End While

// Output(attempts)
// Output("Login berhasil")
// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
User 123
user 123
user user
admin 5678
admin admin!
admin admin
5
Login berhasil
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
admin admin
0
Login berhasil
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
admin Admin
admin123 admin123
admin admin
2
Login berhasil
PS E:\Pengpro\Tugas> █
```

Soal 2. Dompot

```
package main

import (
    "fmt"
)

func main() {
    var x, total int

    total = 0
    x = 1

    for x != 0 {
        fmt.Scan(&x)
        total += x
    }

    fmt.Println(total)
}

// Program dompet

// Kamus
// x, total : Integer

// Algoritma
// total <- 0
// x <- 1

// while x != 0 do
//   Input(x)
//   total <- total + x
// End While

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
500000
-150000
-45000
-10000
-100000
0
195000
PS E:\Pengpro\Tugas> []
```

3. Digit

```
package main

import (
    "fmt"
)

func main() {
    var x, y, total int

    fmt.Scan(&x)

    total = 0
    for x > 0 {
        y = x % 10
        x = x / 10
        fmt.Print(y, " ")
        total += y
    }

    fmt.Println(total)
}

// Program digit

// Kamus
// x, y, total : Integer

// Algoritma
// Input(x)

// total <- 0

// while x > 0 do
//   y <- x mod 10
//   x <- x div 10
//   Output(y , " ")
//   total <- total + y
// End While

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\digit.go"
1234
4 3 2 1 10
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\digit.go"
135798642
2 4 6 8 9 7 5 3 1 45
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\digit.go"
20
0 2 2
PS E:\Pengpro\Tugas> █

Ln 3, Col 9 Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier
```

Soal 4. Cangkir Kopi

```
package main

import (
    "fmt"
)

func main() {
    var n, m, x, y, total int

    fmt.Scan(&n, &m, &x, &y)

    total = 0
    for x <= n && y <= m {
        n -= x
        m -= y
        total++
    }
    fmt.Println(total)
}

// Program cangkirkopi

// Kamus
// n, m, x, y, total : Integer

// Algoritma
// Input(n, m, x, y)

// total <- 0

// while x <= n and y <= m do
//   n <- n - x
//   m <- m - y
//   total <- total + 1
// End While

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
5 9 1 3
3
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
10 12 10 12
1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
20 25 4 2
5
PS E:\Pengpro\Tugas> █

© Connected to Discord Ln 38, Col 15 (468 selected) Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier
```

Soal 5. Konsekutif

```
package main

import (
    "fmt"
)

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

    fmt.Scan(&x)

    isOne = true

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

    fmt.Println(isOne)
}

// Program konsekutif

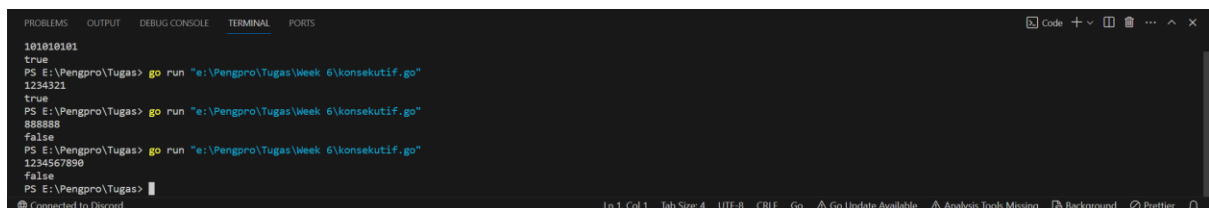
// Kamus
// x, digitterakhir, digitsekarang : Integer
// isOne : Boolean

// Algoritma
// Input(x)
// isOne <- true

// while x > 0 and isOne == true do
//   digitterakhir <- x % 10
//   x <- x / 10
//   digitsekarang <- x % 10
```

```
// isOne <- (digitterakhir - digitsekarang == 1) || (digitsekarang -
digitterakhir == 1)
// x <- x / 10
// End While

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



```
101010101
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\konsektif.go"
1234321
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\konsektif.go"
88888
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\konsektif.go"
123456789
false
PS E:\Pengpro\Tugas>
```

Soal 6. Tangki Air

```
package main

import (
    "fmt"
)

func main() {
    var t, v, tv int
    var full bool

    fmt.Scan(&t)

    tv = 0
    for tv < t {
        fmt.Scan(&v)
        tv += v
        full = tv >= t
        fmt.Println(full)
    }
}

// Program tangki

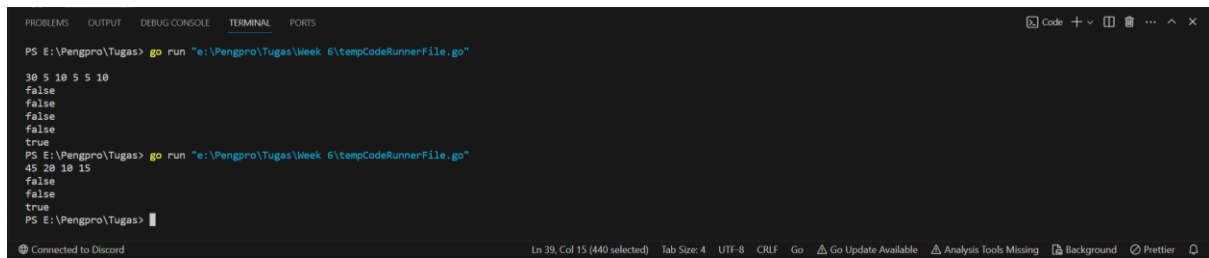
// Kamus
// t, v, tv : Integer
// full : Boolean

// Algoritma
// Input(t)
// tv <- 0

// while tv < t do
```

```
// Input(v)
// tv <- tv + v
// full <- tv >= t
// Output(full)
// End While

// End Program
```



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

```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
30 5 10 5 5 10
false
false
false
false
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 6\tempCodeRunnerFile.go"
45 20 10 15
false
false
true
PS E:\Pengpro\Tugas>
```

The terminal window has a dark theme and includes a status bar at the bottom with the following information: "Ln 39, Col 15 (440 selected)", "Tab Size: 4", "UTF-8", "CRLF", "Go", "Go Update Available", "Analysis Tools Missing", "Background", "Prettier", and a Discord connection status "Connected to Discord".