

### Soal 1. Alphanumeric

```
package main

import (
    "fmt"
)

func main() {
    var x byte
    var hasil bool

    fmt.Scanf("%c", &x)

    hasil = ( x >= 'a' && x <= 'z') || ( x >= 'A' && x <= 'Z') || ('0' <= x &&
x <= '9')

    fmt.Println(hasil)
}

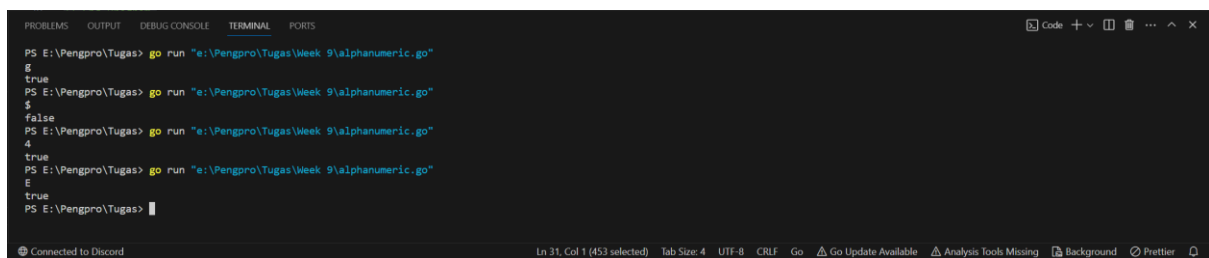
// Program alphanumeric

//Kamus
// x : Char
// hasil : Boolean

// Algoritma
// Input(x)

// hasil <- (x >= 'a' and x <= 'z') or ( x >= 'A' and x <= 'Z') or ('0' <= x
and x <= '9')

// Output(hasil)
// End Program
```



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

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\alphanumeric.go"
8
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\alphanumeric.go"
$
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\alphanumeric.go"
4
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\alphanumeric.go"
E
true
PS E:\Pengpro\Tugas> █
```

At the bottom of the terminal window, there is a status bar with the following information:

- Connected to Discord
- Ln 31, Col 1 (453 selected)
- Tab Size: 4
- UTF-8
- CRLF
- Go
- Go Update Available
- Analysis Tools Missing
- Background
- Prettier

### Soal 2. Kabisat

```
package main
```

```

import (
    "fmt"
)

func main() {
    var x int
    var hasil bool

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

    hasil = (x % 4 == 0 && x % 100 != 0) || x % 400 == 0

    fmt.Println(hasil)
}

// Program kabisat

// Kamus
// x : Integer
// hasil : Boolean

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

// hasil <- (x mod 4 == 0 and x mod 100 != 0) or x mod 400 == 0

// Output(hasil)
// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\kabisat.go"
2816
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\kabisat.go"
2280
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\kabisat.go"
2880
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\kabisat.go"
2818
false
PS E:\Pengpro\Tugas>

```

Ln 9, Col 19 Spaces: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier

### Soal 3. Segitiga

```

package main

import (
    "fmt"
)

func main() {

```

```

var x, y, z int
var siku, sisi, kaki bool

fmt.Scan(&x, &y, &z)

siku = ((x * x + y * y == z * z) || (x * x + z * z == y * y) || (y * y + z
* z == x * x))
sisi = (x == y) && (y == z) && (x == z)
kaki = ((x == y) && x < z) || ((x == z) && z < y) || ((y == z) && z < x)

fmt.Println(siku || sisi || kaki)
}
// Program segitiga

// Kamus
// x,y,z : Integer
// siku, sisi, kaki : boolean

// Algoritma
// Input (x, y, z)
// Set siku = ((x * x + y * y = z * z) OR (x * x + z * z = y * y) OR (y * y +
z * z = x * x))
// Set sisi = (x = y) AND (y = z) AND (x = z)
// Set kaki = ((x = y) AND (x < z)) OR ((x = z) AND (z < y)) OR ((y = z) AND
(z < x))

// Output (siku OR sisi OR kaki)
// End Program

```

```

PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\segitiga.go"
5 5 5
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\segitiga.go"
5 3 10
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\segitiga.go"
4 5 6
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\segitiga.go"
6 10 8
true
PS E:\Pengpro\Tugas>

```

#### Soal 4. Mini Market

```

package main

import (
    "fmt"
)

func main() {
    var x int
    var kartu, diskon, cashback bool

```

```

    fmt.Scan(&x, &kartu)
    fmt.Println("");

    diskon = x >= 100000
    cashback = x >= 200000 && kartu == true

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

// Program minimarket

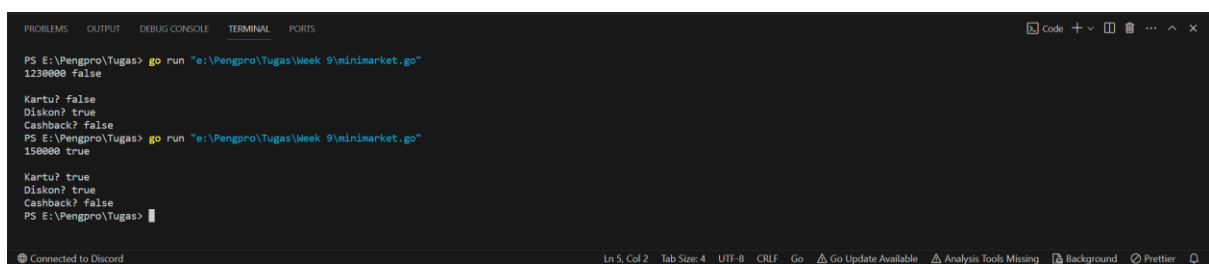
// Kamus
// x : Integer
// kartu, diskon, cashback : Boolean

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

// diskon <- x >= 100000
// cashback <- x >= 200000 and kartu == true

// Output("Kartu?", kartu)
// Output("Diskon?", diskon)
// Output("Cashback?", cashback)
// End Program

```



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\minimarket.go"
1230000 false

Kartu? false
Diskon? true
Cashback? false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\minimarket.go"
150000 true

Kartu? true
Diskon? true
Cashback? false
PS E:\Pengpro\Tugas>

```

## Soal 5. Midpoint

```

package main

import (
    "fmt"
)

func main() {
    var x, y, z float64

```

```

    var hasil bool

    fmt.Scan(&x, &y, &z)
    fmt.Println("");

    hasil = (x + y) / 2.0 == z || (x + z) / 2.0 == y || (y + z) / 2.0 == x

    fmt.Println(hasil)
}

// Program midpoint

// Kamus
// x, y, z : Real
// hasil as Boolean

// Algoritma
// Input(x, y, z)
// Output("")

// hasil <- ((x + y) / 2.0 == z) or ((x + z) / 2.0 == y) or ((y + z) / 2.0 == x)

// Output(hasil)
// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\midpoint.go"
5 9 1

true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\midpoint.go"
2 3 4

true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\midpoint.go"
6 6 6

true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\midpoint.go"
9 3 8

false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\midpoint.go"
3 6
4

false
PS E:\Pengpro\Tugas>

```

Ln 22, Col 18 Spaces: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier

## Soal 6. Dua Lingkaran

```

package main

import (
    "fmt"
)

func main() {
    var x, y, z int
    var hasil bool

```

```

    fmt.Scan(&x, &y, &z)
    fmt.Println("");

    hasil = x + y < z || x + z < y || z + y < x

    fmt.Println("Apakah beririsan?", hasil)
}

// Program dualingkaran

// Kamus
// x, y, z : Integer
// hasil : Boolean

//Algoritma
// Input(x, y, z)
// Output("")

// hasil <- x + y < z or x + z < y or z + y < x

// Output("Apakah beririsan?", hasil)
// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\dualingkaran.go"
5 9 6
Apakah beririsan? false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\dualingkaran.go"
2 3 10
Apakah beririsan? true
PS E:\Pengpro\Tugas>

```

Ln 32, Col 15 Spaces: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier

## Soal 7. Pramuka

```

package main

import (
    "fmt"
)

func main() {
    var n int;
    var a, b, c, d, e, hasil bool;

    fmt.Scan(&n)

    hasil = true;

    for i := 0; i < n && hasil == true; i++ {
        fmt.Scan(&a, &b, &c, &d, &e)
        hasil = a == true && b == true && c == true && d == true && e == true
    }
}

```

```

    }

    fmt.Println("")
    fmt.Println(hasil)
}

//Program pramuka

// Kamus
// n, i : Integer
// a, b, c, d, e, hasil : Boolean

// Algoritma
// Input(n)
// hasil <- true

// For i <- 0 to n - 1 do
//     Input(a, b, c, d, e)
//     hasil <- (a == true) and (b == true) and (c == true) and (d == true) and
// (e == true)
//     If hasil == false Then
//         Exit For Loop
//     End If
// End For

// Output("")
// Output(hasil)
// End Program

```

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\pramuka.go"
4
true true true true
true true true true
true true true true
true true true true

true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\Week 9\pramuka.go"
7
true true true true
true true true true
true true true true
true false true true true

false
PS E:\Pengpro\Tugas>

```

Connected to Docker | Ln 34, Col 26 | Spaces: 4 | UTF-8 | CRLF | Go | Go Update Available | Analysis Tools Missing | Background | Prettier