

Faktor

```
package main

import (
    "fmt"
)

func main() {
    var x int

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

    for i := 1; i <= x; i++ {
        if x % i == 0 {
            fmt.Print(i, " ")
        }
    }
}

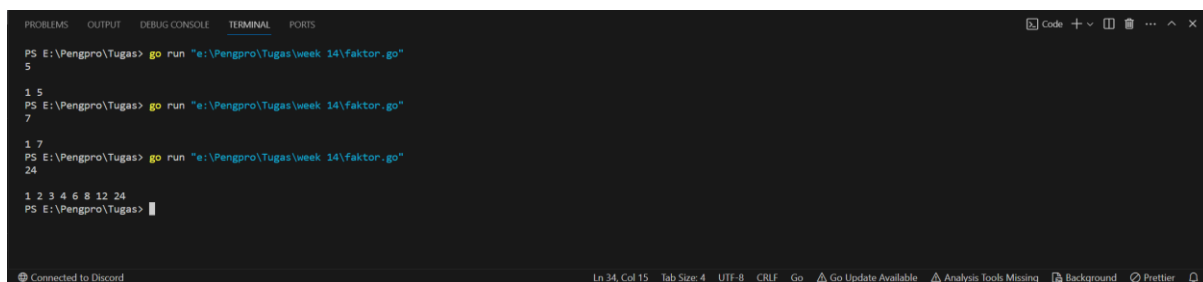
// Program faktor

// Kamus
// x: Integer

// Algoritma
// Input(x)

// For i <- 1 to x do
//     If x mod i == 0 then
//         Output(i)
//     End If
// End For

// End Program
```



The screenshot shows a Go IDE interface with a terminal window. The terminal displays the execution of the 'faktor' program for three different inputs: 5, 7, and 24. The output for each input shows its factors separated by spaces. The IDE interface includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The terminal window has a title bar with icons for code, zoom, and other standard window controls. The status bar at the bottom indicates the current line and column (Ln 34, Col 15), tab size (4), encoding (UTF-8), and other settings like CRLF, Go, and analysis tools.

```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\faktor.go"
5
1 5
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\faktor.go"
7
1 7
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\faktor.go"
24
1 2 3 4 6 8 12 24
PS E:\Pengpro\Tugas>
```

Prima

```
package main

import (
    "fmt"
)

func main() {
    var x, count int
    var prima bool

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

    count = 0
    prima = true;

    for i := 1; i <= x; i++ {
        if x % i == 0 {
            count++
        }
    }

    if count != 2 {
        prima = false
    }

    fmt.Println(prima)
}

// Program Prima

// Kamus
// x, count: Integer
// prima: Boolean

// Algoritma
// Input(x)

// count <- 0
// prima <- true

// For i <- 1 to x do
//     If x mod i == 0 then
//         count + 1
//     End If
// End For
```

```
// If count != to 2 then
//     prima <- false
// End If

// Output(prima)

// End Program
```

```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\prima.go"
1
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\prima.go"
7
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\prima.go"
24
false
PS E:\Pengpro\Tugas> █
```

Biner

```
package main

import "fmt"

func main() {
    var x, y int
    var binaryString string

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

    for x > 0 {
        y = x % 2
        x = x / 2
        binaryString = fmt.Sprint(y) + binaryString
    }

    fmt.Println(binaryString)
}

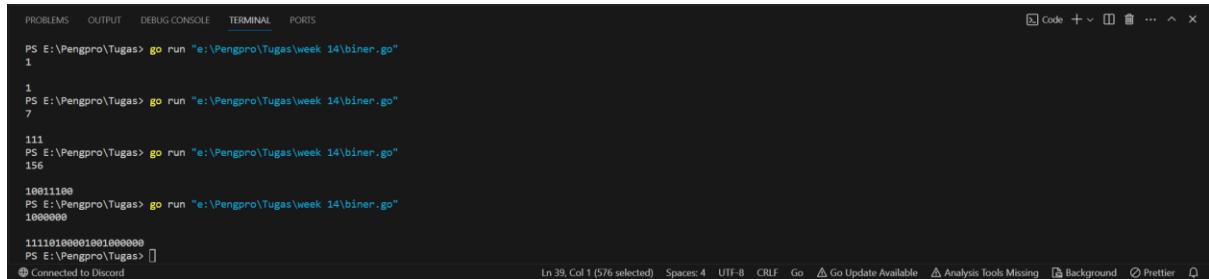
// Program biner

// Kamus
// x, y: Integer
// binaryString: String

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

```
// while x > 0 Do
//     y <- x % 2
//     x <- x / 2
//     binaryString <- gabungkan(y, binaryString)
// End While

// Output(binaryString)
// End Program
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\biner.go"
1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\biner.go"
7
111
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\biner.go"
156
10011100
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\biner.go"
1000000
11110100001001000000
PS E:\Pengpro\Tugas>
Ln 39, Col 1 (576 selected) Spaces: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier
@ Connected to Discord
```

Lebar Daun

```
package main

import (
    "fmt"
);

func main() {
    var n, x, hasil int

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

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

    fmt.Println(hasil)
}

// Prrogram lebardaun

// Kamus
// n, x, hasil: Integer
```

```
// Algoritma
// Input(n)
// hasil <- 0

// For i <- 0 to n - 1 do
//     Input(x)
//     If hasil < x then
//         hasil <- x
//     End If
// End For

// Output(hasil)

// End Program
```

```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\lebadaun.go"
3 2 5 2
5
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\lebadaun.go"
1 10
10
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\lebadaun.go"
5 9 5 8 30 1
30
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\lebadaun.go"
10 11 32 53 64 85 96 57 38 29 80
96
PS E:\Pengpro\Tugas> |
```

N Digit

```
package main

import (
    "fmt"
)

func main() {
    var x, hasil, digit int

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

    hasil = x % 10
    for x > 0 {
        digit = x % 10
        if digit > hasil {
            hasil = digit
        }
        x /= 10
    }

    fmt.Println(hasil)
}
```

```
// Program ndigit

// Kamus
// x, hasil, digit: Integer

// Algoritma
// Input(x)
// hasil <- x % 10
// While x > 0 do
//     digit <- x % 10
//     If digit > hasil then
//         hasil <- digit
//     End If
//     x <- x / 10
// End While

// Output(hasil)

// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\ndigit.go"
123

3
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\ndigit.go"
321

3
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\ndigit.go"
159

9
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\ndigit.go"
1000000

1
PS E:\Pengpro\Tugas> 
```

Cari Digit

```
package main

import (
    "fmt"
)

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

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

    hasil = false
    for y > 0 {
        digit = y % 10
        if digit == x {
```

```

        hasil = true
    }
    y /= 10
}

fmt.Println(hasil)
}

// Program caridigit

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

// Algoritma
// Input(x, y)

// hasil <- false
// while y > 0 do
//     digit <- y mod 10
//     If digit == x then
//         hasil <- true
//     End If
//     y <- y div 10
// End while

// Output(hasil)
// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\caridigit.go"
2 123
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\caridigit.go"
8 321478
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\caridigit.go"
4 159
true
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\caridigit.go"
5 1000000
false
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\caridigit.go"
5 1000000
false
PS E:\Pengpro\Tugas>

```

Ln 45, Col 15 Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier

Gerbang Tol

```

package main

import (
    "fmt"
)

func main() {
    var x string

```

```

var a, b, c int
var isLoop bool

isLoop = true
a, b, c = 0, 0, 0

for isLoop == true{
    fmt.Scan(&x)
    if x == "A" {
        a++
    } else if x == "B" {
        b++
    } else if x == "C" {
        c++
    } else {
        isLoop = false
    }
}

fmt.Println("")
fmt.Println("Tipe A =", a)
fmt.Println("Tipe B =", b)
fmt.Println("Tipe C =", c)
}

// Progra gerbangtol

// Kamus
// x: String
// a, b, c: Integer
// isLoop: Boolean

// Algoritma
// isLoop <- True
// a, b, c <- 0, 0, 0

// While isLoop == True do
//     Input(x)
//     If x == "A" then
//         a++
//     Else If x == "B" then
//         b++
//     Else If x == "C" then
//         c++
//     Else
//         isLoop == False
//     End If
// End While

```



```
// Output("Tipe A =", a)
// Output("Tipe B =", b)
// Output("Tipe C =", c)

// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\gerbangtol.go"
A A C A B B A B C A A E

Tipe A = 7
Tipe B = 3
Tipe C = 2
PS E:\Pengpro\Tugas> |
```

Ln 46, Col 27 Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier

Temperatur

```
package main

import (
    "fmt"
)

func main() {
    var x, min, max, lastX, sum, n int
    var average float64
    var isLoop bool

    isLoop = true
    average, min, max, lastX, sum, n = 0, 0, 0, 0, 0, 0;

    for isLoop == true {
        fmt.Scan(&x)
        if lastX == 0 && x == 0 {
            isLoop = false;
        }

        if min > x {
            min = x
        }

        if max < x {
            max = x
        }

        sum += x
        lastX = x
        n++
    }
}
```

```

        average = float64(sum) / float64(n-1)

        fmt.Println("")
        fmt.Println(max)
        fmt.Println(min)
        fmt.Println(average)
    }

// Program temperatur

// Kamus
// x, min, max, lastX, sum, n: Integer
// average: Real
// isLoop: Boolean

// Algoritma
// isLoop <- true
// average, min, max, lastX, sum, n <- 0

// While isLoop is true do
//     Input(x)
//     If lastX == 0 && x == 0 then
//         isLoop <- false
//     End If
//
//     If min > x then
//         min <- x
//     End If
//
//     If max < x then
//         max <- x
//     End If
//
//     sum <- sum + x
//     lastX <- x
//     n <- n + 1
// End While

// average <- sum / (n - 1)

// Output(max)
// Output(min)
// Output(average)

// End Program

```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\temperatur.go"
2 5 9 0 3 -2 4 0 0
9
-2
2.625
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\temperatur.go"
5 0 0
5
0
2.5
PS E:\Pengpro\Tugas> |
```

Pola Bilangan 1

```
package main

import (
    "fmt"
)

func main() {
    var x int;

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

    for i := 1; i <= x; i++ {
        for j := 1; j <= x; j++ {
            fmt.Print(j)
        }
        fmt.Println("")
    }
}

// Program polabilangan1

// Kamus
// x, i, j: Integer

// Algoritma
// Input(x)

// For i <- 1 to x do
//     For j <- 1 to x do
//         Output(j)
//     End For
//     Output("")
// End For

// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan1.go"
1
1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan1.go"
7
1234567
1234567
1234567
1234567
1234567
1234567
1234567
PS E:\Pengpro\Tugas> |
```

Pola Bilangan 2

```
package main

import (
    "fmt"
)

func main() {
    var x int

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

    for i := 1; i <= x; i++ {
        for j := 1; j <= x; j++ {
            fmt.Print(i)
        }
        fmt.Println("")
    }
}

// Program polabilangan2

// Kamus
// x, i, j: Integer

// Algoritma
// Input(x)

// For i <- 1 to x do
//     For j <- 1 to x do
//         Output(i)
//     End For
//     Output("")
// End For

// End Program
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan2.go"
1
1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan2.go"
7
11111111
22222222
33333333
44444444
55555555
66666666
77777777
PS E:\Pengpro\Tugas> █
```

Pola Bilangan 4

```
package main

import (
    "fmt"
);

func main() {
    var x int;

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

    for i := 1; i <= x; i++ {
        for j := 1; j <= x; j++ {
            if j == 1 || j == x || i == 1 || i == x {
                fmt.Print(i)
            } else {
                fmt.Print(" ")
            }
        }
        fmt.Println("")
    }
}

// Program polabilangan4

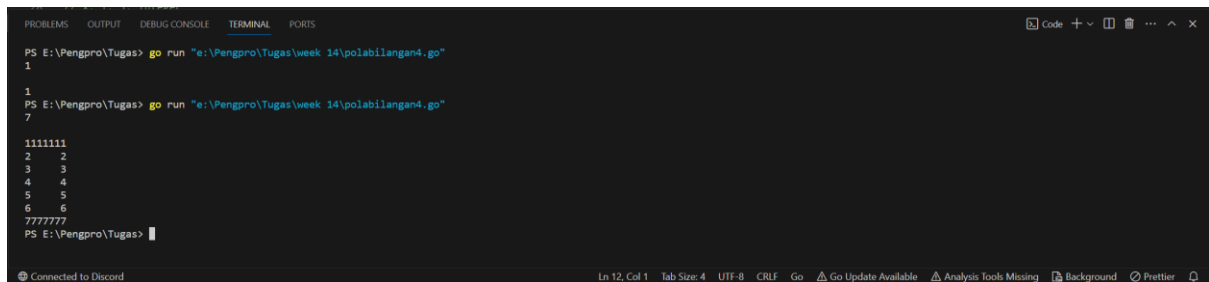
// Kamus
// x, i, j: Integer

// Algoritma
// Input(x)

// For i <- 1 to x do
//     For j <- 1 to x do
//         If j == 1 OR j == x OR i == 1 OR i == x then
//             Output(i)
//         Else
//             Output(" ")
//         End If
```

```
//      End For
//      Output("")
// End For

// End Program
```



```
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan4.go"
1
1
2
3
4
5
6
7
1111111
2 2
3 3
4 4
5 5
6 6
7777777
PS E:\Pengpro\Tugas> █
```

Pola Bilangan 3

```
package main

import (
    "fmt"
);

func main() {
    var x int;

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

    for i := 1; i <= x; i++ {
        for j := 1; j <= x; j++ {
            if i == j || j == x - i + 1 {
                fmt.Print(i)
            } else {
                fmt.Print(" ")
            }
        }
        fmt.Println("")
    }
}

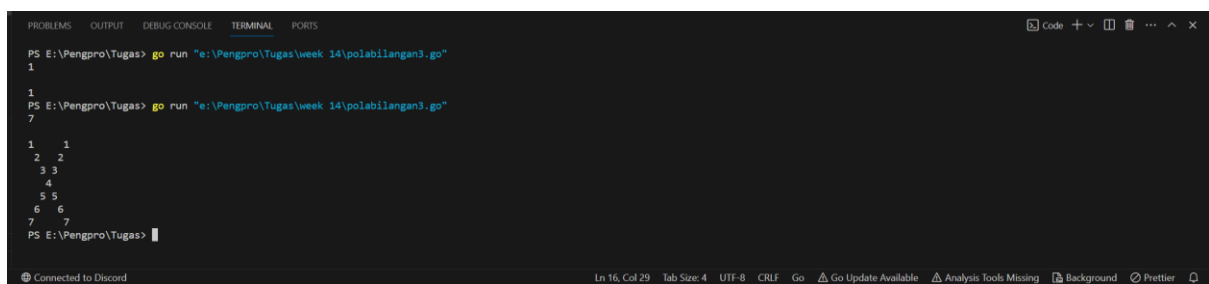
// Program polabilangan3

// Kamus
// x, i, j: Integer

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

```
// For i <- 1 to x do
//     For j <- 1 to x do
//         If i == j OR j == x - i + 1 then
//             Output(i)
//         Else
//             Output(" ")
//         End If
//     End For
//     Output("")
// End For

// End Program
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan3.go"
1
1
PS E:\Pengpro\Tugas> go run "e:\Pengpro\Tugas\week 14\polabilangan3.go"
7
1 1
2 2
3 3
4
5 5
6 6
7 7
PS E:\Pengpro\Tugas> |
```

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Ln 16, Col 29 Tab Size: 4 UTF-8 CRLF Go Go Update Available Analysis Tools Missing Background Prettier