

Latihan 1: Faktor Bilangan

```
package main

import (
    "fmt"
)

func main() {
    var x, y int
    var faktor bool

    fmt.Scan(&x, &y)

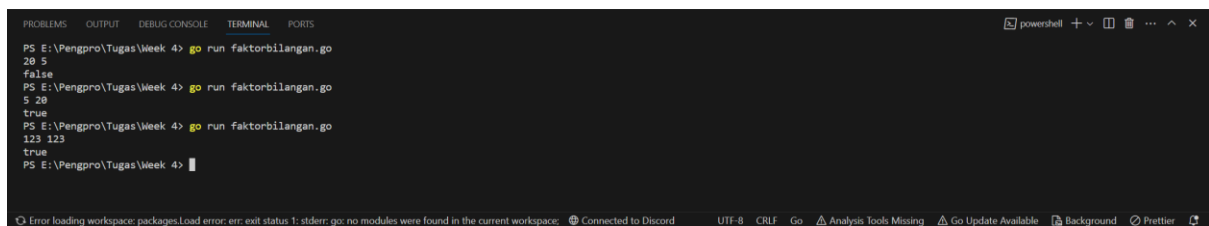
    faktor = y % x == 0

    fmt.Println(faktor)
}

// Program faktorbilangan

// Kamus
// x, y : Integer
// faktor : Boolean

// Algoritma
// Input (x, y)
// faktor <- y mod x <- 0
// Output (faktor)
// End Program
```



```
PS E:\Pengpro\Tugas\Week 4> go run faktorbilangan.go
20 5
false
PS E:\Pengpro\Tugas\Week 4> go run faktorbilangan.go
5 20
true
PS E:\Pengpro\Tugas\Week 4> go run faktorbilangan.go
123 123
true
PS E:\Pengpro\Tugas\Week 4>
```

Latihan 2: Penduduk

```
package main

import "fmt"

func main() {
    var jumlahPendudukAwal, jumlahKelahiran, jumlahImigrasi, jumlahKematian,
    jumlahEmigrasi, hasil int
```

```

    fmt.Scan(&jumlahPendudukAwal, &jumlahKelahiran, &jumlahImigrasi,
&jumlahKematian, &jumlahEmigrasi)
    hasil = jumlahPendudukAwal + jumlahKelahiran + (jumlahImigrasi -
(jumlahKematian + jumlahEmigrasi))

    fmt.Println(hasil)
}

// Program penduduk

// Kamus
// jumlahPendudukAwal, jumlahKelahiran, jumlahImigrasi, jumlahKematian,
jumlahEmigrasi, hasil: Integer

// Algoritma
// Input(jumlahPendudukAwal, jumlahKelahiran, jumlahImigrasi, jumlahKematian,
jumlahEmigrasi)

// hasil <- jumlahPendudukAwal + jumlahKelahiran + (jumlahImigrasi -
(jumlahKematian + jumlahEmigrasi))

// Output(hasil)

// End Program

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas\Week 4> go run penduduk.go
1000 20 5 10 4
1011
PS E:\Pengpro\Tugas\Week 4> go run penduduk.go
10 2 5 1 4
12
PS E:\Pengpro\Tugas\Week 4> go run penduduk.go
55 0 10 50 15
0
PS E:\Pengpro\Tugas\Week 4>

```

Error loading workspace: packages.Load error: err: exit status 1: stderr: go: no modules were found in the current workspace;
 Connected to Discord
 UTF-8 CRLF Go Analysis Tools Missing Go Update Available Background Prettier

Latihan 3: Akar Pangkat 3

```

package main

import "fmt"

func main() {
    var x, y int
    var akar bool

    fmt.Scan(&x, &y)

    akar = (x * x * x) == y

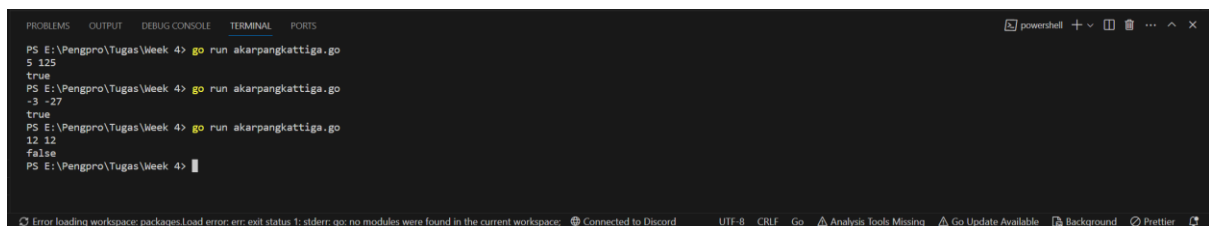
    fmt.Println(akar)
}

```

```
// Program akarpangkattiga

// Kamus
// x, y: Integer
// akar: Boolean

// Algoritma
// Input(x, y)
// akar <- x pangkat 3 <- y
// Output(akar)
// End Program
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\Pengpro\Tugas\Week 4> go run akarpangkattiga.go
5 125
true
PS E:\Pengpro\Tugas\Week 4> go run akarpangkattiga.go
-3 -27
true
PS E:\Pengpro\Tugas\Week 4> go run akarpangkattiga.go
12 12
false
PS E:\Pengpro\Tugas\Week 4> █
```

Latihan 4: Gravitasi

```
package main

import "fmt"

func main() {
    var merkurius, venus, mars, bumi, yupiter, saturnus, uranus, neptunus, x
    float64
    bumi = 9.8
    merkurius = 0.38 * bumi
    venus = 0.91 * bumi
    mars = 0.38 * bumi
    yupiter = 2.37 * bumi
    saturnus = 0.92 * bumi
    uranus = 0.89 * bumi
    neptunus = 1.13 * bumi

    fmt.Scan(&x)
    fmt.Printf("%.0f %.0f %.0f %.0f %.0f %.0f %.0f %.0f\n", x * merkurius, x *
    venus, x * bumi, x * mars, x * yupiter, x * saturnus, x * uranus, x *
    neptunus)
}

// Program gravitasi

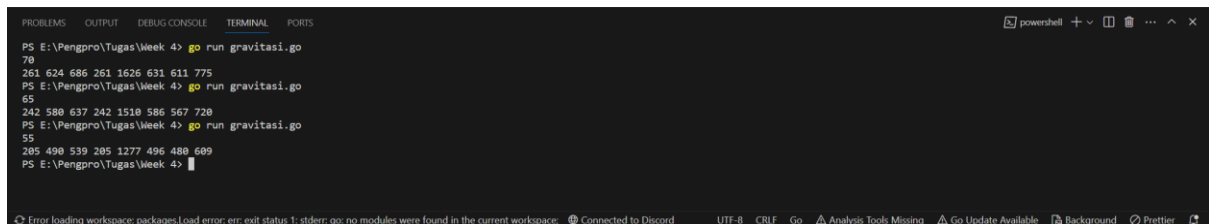
// Kamus
//merkurius, venus, mars, bumi, yupiter, saturnus, uranus, neptunus, x: Real
```

```
// Algoritma
// bumi <- 9.8
// merkurius <- 0.38 * bumi
// venus <- 0.91 * bumi
// mars <- 0.38 * bumi
// yupiter <- 2.37 * bumi
// saturnus <- 0.92 * bumi
// uranus <- 0.89 * bumi
// neptunus <- 1.13 * bumi

// Input(x)

// Output(x * merkurius, x * venus, x * bumi, x * mars, x * yupiter, x *
saturnus, x * uranus, x * neptunus)

// End Program
```



```
PS E:\Pengpro\Tugas\Week 4> go run gravitasi.go
70
261 624 686 261 1626 631 611 775
PS E:\Pengpro\Tugas\Week 4> go run gravitasi.go
65
242 588 637 242 1518 586 567 728
PS E:\Pengpro\Tugas\Week 4> go run gravitasi.go
55
205 490 539 205 1277 496 480 609
PS E:\Pengpro\Tugas\Week 4>
```

Latihan 5: Baris bilangan

```
package main

import "fmt"

func main() {
    var a, b, c, d, e int

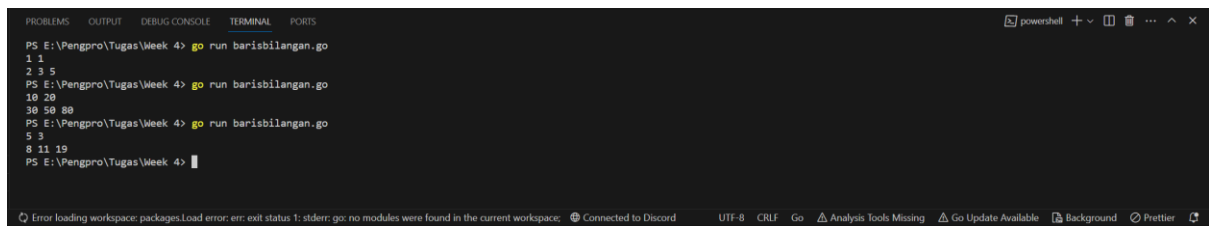
    fmt.Scan(&a, &b)
    c = a + b
    d = b + c
    e = c + d
    fmt.Println(c, d, e)
}

// Program barisbilangan

// // Kamus
// a, b, c, d, e: Integer

// Algoritma
// Input(a, b)
// c <- a + b
// d <- b + c
```

```
// e <- c + d
// Output(c, d, e)
// End Program
```



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

```
PS E:\Pengpro\Tugas\Week 4> go run barisbilangan.go
1 1
2 3 5
PS E:\Pengpro\Tugas\Week 4> go run barisbilangan.go
10 20
30 50 80
PS E:\Pengpro\Tugas\Week 4> go run barisbilangan.go
5 3
8 11 19
PS E:\Pengpro\Tugas\Week 4> 
```

The terminal window has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The status bar at the bottom shows various icons and text, including "Error loading workspace: packages Load error: err: exit status 1: stderr: go: no modules were found in the current workspace", "Connected to Discord", "UTF-8", "CRLF", "Go", "Analysis Tools Missing", "Go Update Available", "Background", "Prettier", and a search icon.