

**LAPORAN PRAKTIKUM ALGORITMA  
DAN PEMROGRAMAN 1**

**MODUL [13]**

**[Repeat Until]**



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**FAKULTAS INFORMATIKA**

**TELKOM UNIVERSITY PURWOKERTO**

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## LATIHAN KELAS – GUIDED

### 1. Guided 1 Source Code

```
package main

import "fmt"

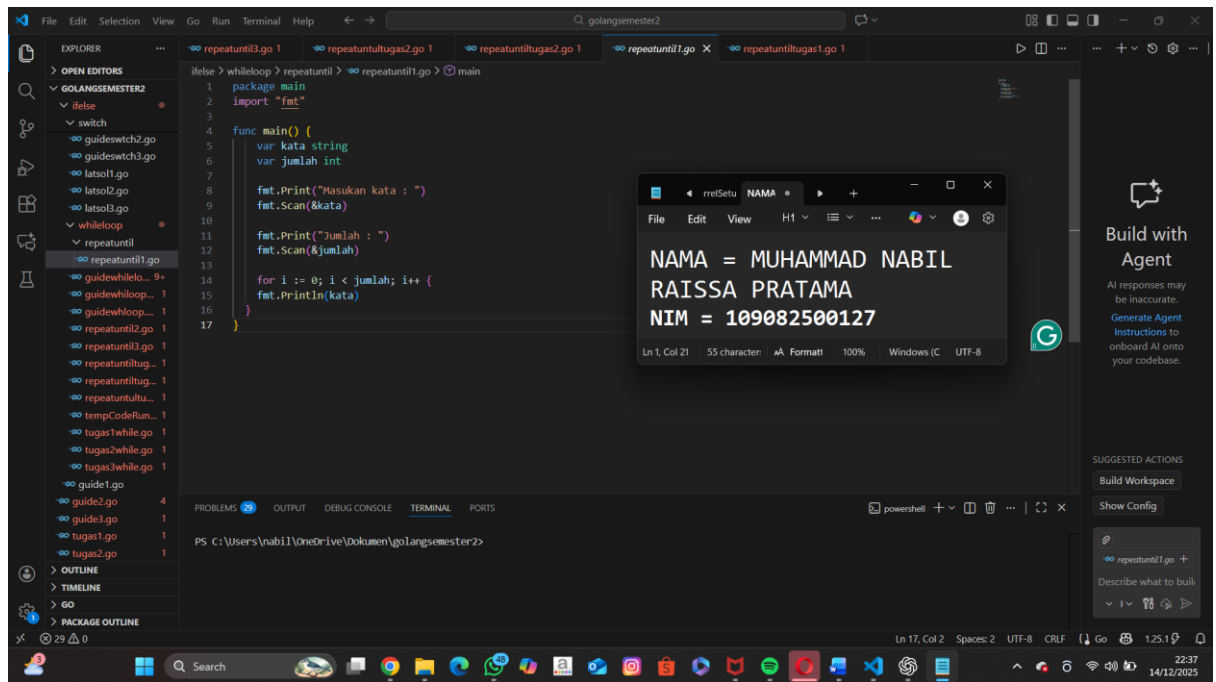
func main() {
    var kata string
    var jumlah int

    fmt.Print("Masukan kata : ")
    fmt.Scan(&kata)

    fmt.Print("Jumlah : ")
    fmt.Scan(&jumlah)

    for i := 0; i < jumlah; i++ {
        fmt.Println(kata)
    }
}
```

### Screenshoot program



## Deskripsi program

Program meminta input sebuah kata dan jumlah pengulangan dari pengguna. Kata tersebut kemudian dicetak ke layar sebanyak jumlah yang dimasukkan.

## 2. Guided 2

### Source Code

```
package main

import "fmt"

func main() {
    var n int
    for {

        fmt.Scan(&n)
        if n > 0 {
            break
        }

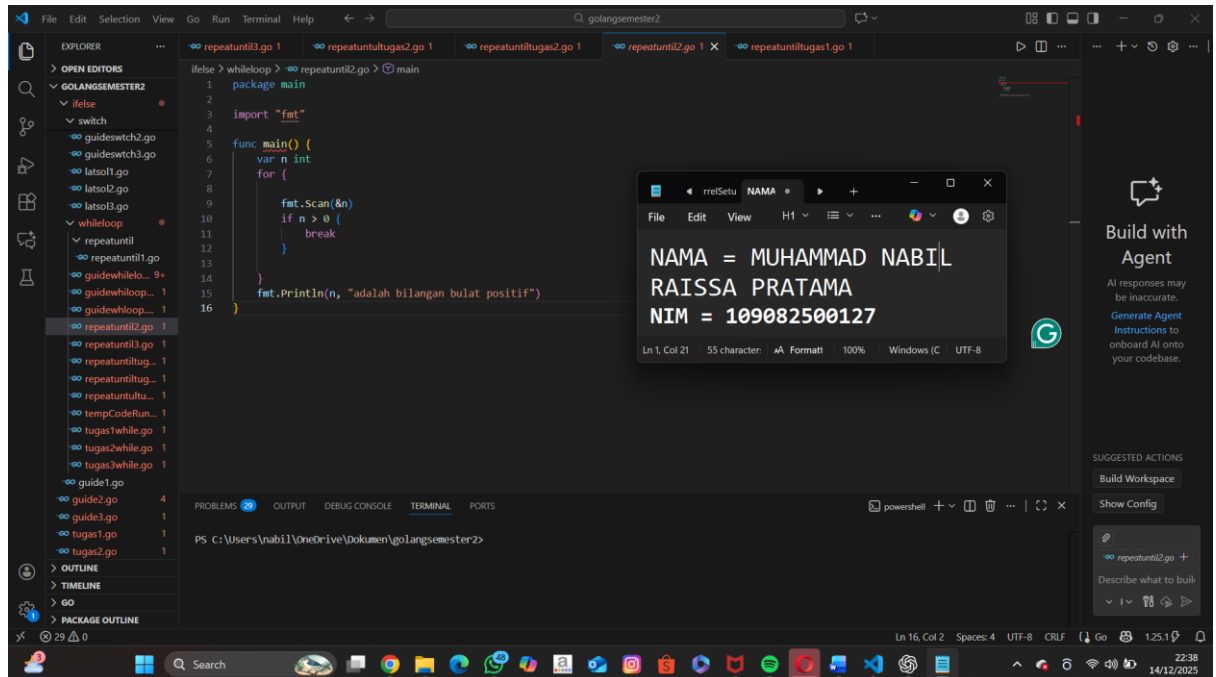
    }

    fmt.Println(n, "adalah bilangan bulat positif")
}
```

```
}

}
```

## Screenshoot program



## Deskripsi program

Program meminta pengguna memasukkan sebuah bilangan bulat. Input akan diulang sampai pengguna memasukkan bilangan bulat positif lalu ditampilkan hasilnya.

### 3. Guided 3 Source Code

```
package main

import "fmt"

func main() {
    var x, y int

    fmt.Scan(&x, &y)

    for {
        x = x - y
    }
}
```

```

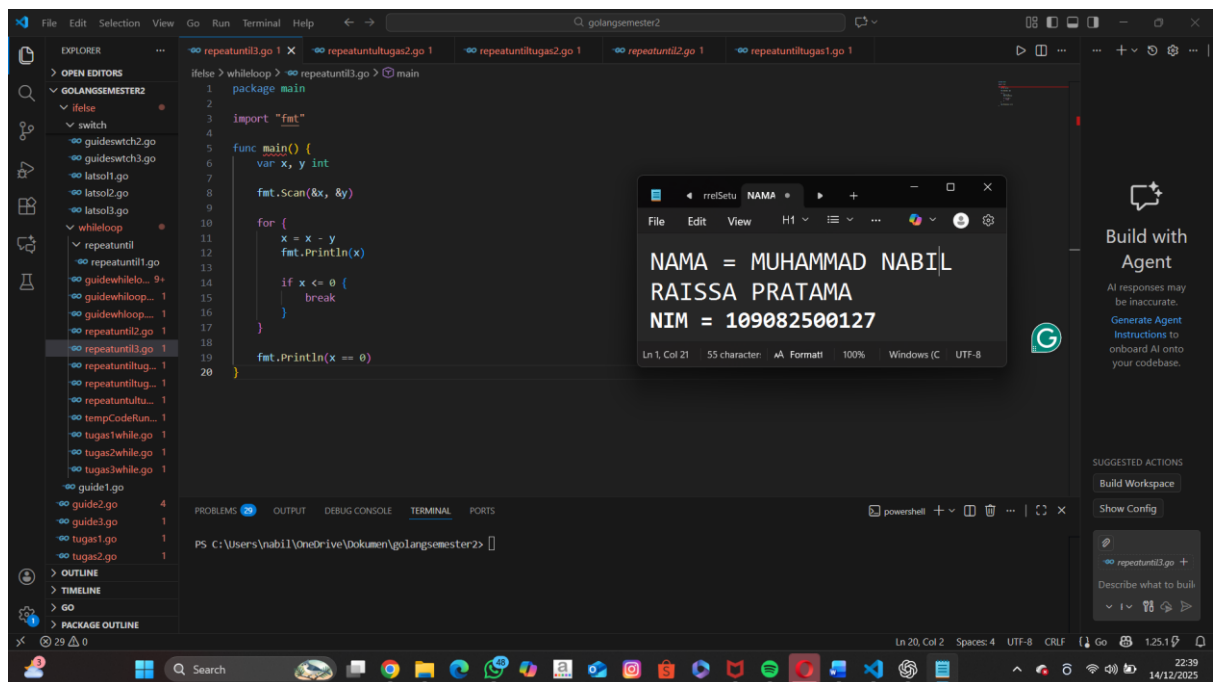
        fmt.Println(x)

        if x <= 0 {
            break
        }
    }

    fmt.Println(x == 0)
}

```

## Screenshoot program



## Deskripsi program

Program menerima dua bilangan x dan y dari pengguna. Nilai x dikurangi y berulang kali hingga x kurang dari atau sama dengan nol lalu dicek apakah x bernilai nol.

## TUGAS

### 1. Tugas 1

#### Source code

```
package main

import "fmt"

func main(){
    var bilangan int
    fmt.Print(" Masukan Bilangan bulat : ")
    fmt.Scan(&bilangan)
    count := 0

    for {
        bilangan = bilangan/10
        count++

        if bilangan == 0{
            break
        }
    }
    fmt.Print(count)
}
```

The image shows a Windows 11 desktop environment. The primary application is Visual Studio Code (VS Code), which is open with a Go project. The Explorer sidebar on the left shows a file tree with folders like 'golangsemester2' and 'ifelse', and several Go files including 'repeattuntugus1.go' through 'repeattuntugus5.go'. The main editor area displays the code for 'repeattuntugus1.go', which is a Go program with a 'main' function. The code includes package declarations, imports, and a loop that calculates a value based on 'bilangan' and 'count'. A terminal window at the bottom of the editor shows the command prompt 'PS C:\Users\nabil\OneDrive\Documents\golangsemester2>'. Overlaid on the right side of the VS Code window is a smaller application window titled 'NAMA'. This window displays the text 'NAMA = MUHAMMAD NABIL', 'RAISSA PRATAMA', and 'NIM = 109082500127'. To the right of the VS Code window, there is a sidebar with a 'Build with Agent' section, which includes a note about AI responses and a 'Generate Agent Instructions' button. Below this, there is a 'SUGGESTED ACTIONS' section with buttons for 'Build Workspace' and 'Show Config'. At the bottom of the sidebar, there is a section for 'repeattuntugus' with a plus icon and a description 'Describe what to build'. The Windows taskbar at the bottom shows various icons, including the Start button, Search, and several application icons. The system tray on the right shows the date and time as '22:40 14/12/2023'.

### Deskripsi program

Program meminta pengguna memasukkan sebuah bilangan bulat. Bilangan dibagi 10 berulang kali untuk menghitung jumlah digitnya lalu ditampilkan.

## 2. Tugas 2

### Source code

```
package main

import "fmt"

func main() {
    var angka float64
    fmt.Print("Masukkan angka: ")
    fmt.Scan(&angka)

    batas := float64(int(angka) + 1)

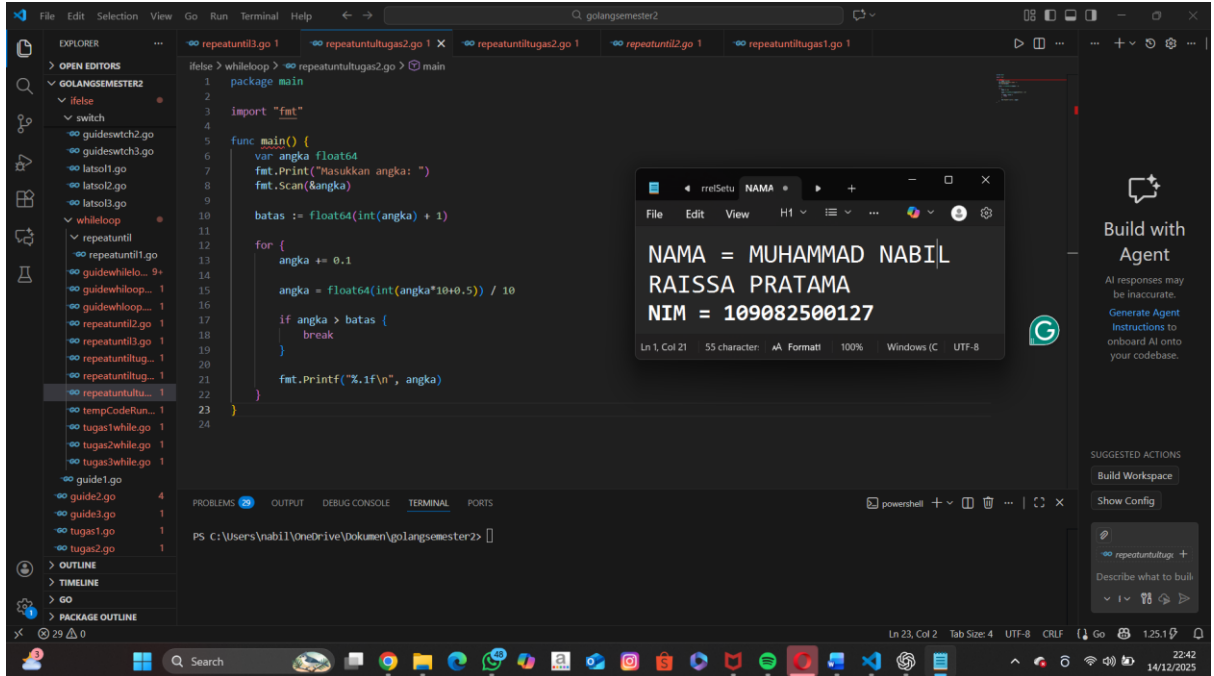
    for {
        angka += 0.1

        angka = float64(int(angka*10+0.5)) / 10

        if angka > batas {
            break
        }

        fmt.Printf("%.1f\n", angka)
    }
}
```

## Screenshoot program



## Deskripsi program

Program Go berulang kali menghitung dan menampilkan nilai angka baru hingga mencapai batas.

### 3. Tugas 3

#### Source code

```
package main

import "fmt"

func main() {
    var target, donasi int
    total := 0
    jumlahDonatur := 0

    fmt.Scan(&target)

    for {

        fmt.Scan(&donasi)

        jumlahDonatur++
```



```

total += donasi

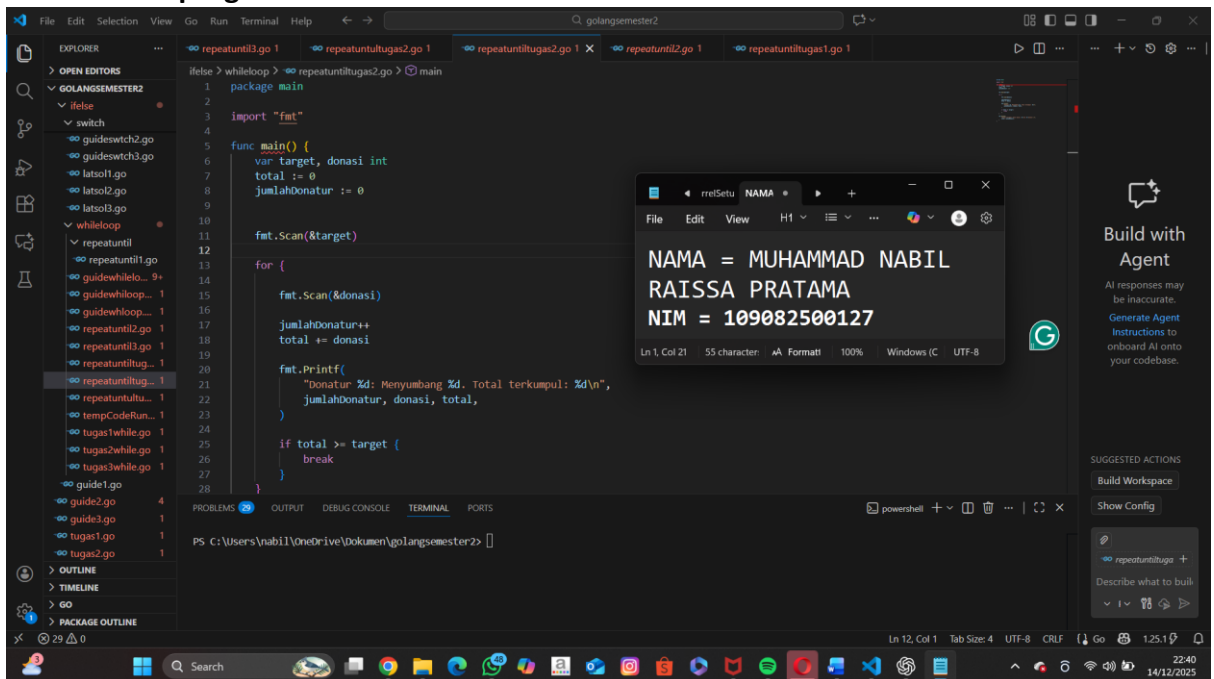
fmt.Printf(
    "Donatur %d: Menyumbang %d. Total terkumpul: %d\n",
    jumlahDonatur, donasi, total,
)

if total >= target {
    break
}

fmt.Printf(
    "Target tercapai! Total donasi: %d dari %d donatur.\n",
    total, jumlahDonatur,
)
}

```

## Screenshoot program



## Deskripsi program

Program meminta target donasi lalu menerima input donasi secara berulang. Setiap donasi dijumlahkan dan ditampilkan hingga total donasi mencapai target.