Nama: Kanjeng Dhimas Cahyoherlina

NIM : 1303223064

Kelas : IT-46-03

SOAL1

```
package main

import (
    "fmt"
    "math"

func main() {
    var R, r, t, t1 int
    var LS, ls, lp float64
    fmt.Scan(&R, &r, &t, &t1)
    hitungLuasSelimut_1303223064(r, t1, &ls)
    hitungLuasSelimut_1303223064(R) + luasAlas_1303223064(r) + LS - ls

fmt.Println(LS)
    fmt.Println(ls)
    fmt.Println(lp)

func luasAlas_1303223064(r int) float64 {
    return float64(r) * float64(r) * 3.14
}

func garisPelukis_1303223064(r, t int) float64 {
    return math.Sqrt(float64(r*r) + float64(t*t))
}

func hitungLuasSelimut_1303223064(r, tint, t int, luas *float64) {
    var s float64
    s = garisPelukis_1303223064(r, t)
    *luas = 3.14 * float64(r) * s

}
```

```
D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal1.go
10 7 20 14
702.125344934934
344.04141901811767
825.9439259168162
D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>
```

SOAL2

```
eckage main
     func main() {
    var jam, menit int
           var member bool
var total float64
          fmt.Scan(&jam, &menit, &member)
hitungSewa_1303223064(jam, menit, member, &total)
          fmt.Println(total)
15 > func durasi_1303223064(jam, menit int) int {
16 > if jam == 0 && menit != 0 {
          return 1
} else if menit >= 10 {
                                                                                                  D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal2.go
24 v func potongan_1303223064(durasi, tarif int) float64 {
          if durasi > 3 {
    return float64(durasi*tarif) * 0.1
                                                                                                  D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal2.go
                                                                                                  0 5 false
                                                                                                  5000
                                                                                                  D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal2.go
                                                                                                 1 5 false
5000
   \vee func tarif__1303223064(member bool) int {
          if member {
    return 3500
                                                                                                 D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal2.go
                                                                                                  3 42 true
                                                                                                  12600
      func hitungSewa_1303223064(jam, menit int, member bool, biaya *float64)
  var durasi int = durasi_1303223064(jam, menit)
  var tarif int = tarif_1303223064(member)
  var diskon float64 = potongan_1303223064(durasi, tarif)
  *biaya = float64(durasi*tarif) - diskon
                                                                                                 D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal2.go
                                                                                                  3 8 false
15000
                                                                                                  D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>
```

SOAL3

```
func main() {
   fmt.Scan(&x, &y)
display_1303223064(x, y)
func isFaktor_1303223064(num, x int) bool {
   return num%x == 0
func jumlahFaktor_1303223064(num int, total *int) {
   for i := 1; i < num; i++ {
    if isFaktor_1303223064(num, i) {
        *total += i</pre>
func perfect_1303223064(num int) bool {
                                                   D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal3.go
   jumlahFaktor_1303223064(num, &total)
    return num == total
                                                   1 10
                                                   Barisan Perfect Number: 6
func display_1303223064(x, y int) {
                                                   D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal3.go
   fmt.Print("Barisan Perfect Number: ")
                                                   30 350
       if perfect_1303223064(x) {
                                                   Barisan Perfect Number:
                                                   D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal3.go
                                                   Barisan Perfect Number: 6 28 496 8128
D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>
```

SOAL4

```
package main
func main() {
   var num, num1, num2 int
   fmt.Scanln(&num)
   split_1303223064(num, &num1, &num2)
   fmt.Println(num1, num2)
   fmt.Println(num1 + num2)
func len_1303223064(num int) int {
   var total int = 0
   for num > 0 {
       total++
       num /= 10
   return total
func pangkat_1303223064(n int) int {
                                                   D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal4.go
   var total int = 1
                                                    1234567
   for n > 0 {
                                                    1234 567
       total *= 10
                                                    1801
                                                    D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal4.go
                                                   5 2
7
   return total
func split_1303223064(num int, num1, num2 *int) { D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal4.go
   var mid int = len_1303223064(num) / 2
                                                    25098245
   *num1 = num / pangkat_1303223064(mid)
    *num2 = num % pangkat_1303223064(mid)
                                                    D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>
```

SOAL5

```
package main
  func main() {
      var menu, tagihan, rombongan, i, n int
      var sisa bool
      fmt.Scan(&rombongan)
       for i = 1; i \le rombongan; i++ \{
           fmt.Scan(&menu, &n, &sisa)
           hitungTarif_1303223064(menu, sisa, n, &tagihan)
           fmt.Println(tagihan)
v func tarif__1303223064(menu int) int {
          return 10000
      } else if menu > 3 && menu <= 50 {
return 10000 + (menu-3)*2500
                                                                                         D:\ALPRO_MOD8_IT-46-03_1303223064_ARF>go run soal5.go
          return 100000
                                                                                          6
3 10 false
10000
                                                                                          100000
35 35 false
                                                                                         35 35 false
90000
35 40 true
3600000
100 100 false
100000
80 15 true
1500000
  func hitungTarif_1303223064(menu int, bersisa bool, n int, total *int) {
           *total = n * tarif__1303223064(menu)
           *total = tarif__1303223064(menu)
                                                                                         D:\ALPRO MOD8 IT-46-03 1303223064 ARF
```