

**LAPORAN PRAKTIKUM**  
**Algoritma Pemrograman**

**EVALUASI**



**Disusun oleh:**

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**PROGRAM STUDI S1 INFORMATIKA**  
**FAKULTAS INFORMATIKA**  
**TELKOM UNIVERSITY PURWOKERTO**  
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## SOAL

### 1. SOAL 1

#### Source Code

```
package main

import "fmt"

func main() {
    var x, y int
    fmt.Scan(&x, &y)

    sum := 0
    for i := x; i <= y; i++ {
        sum += i
    }

    fmt.Println(sum)
}
```

#### Screenshoot program

```
EVALUASI1 > :go soal1.go > main
1 package main
2
3 import "fmt"
4
5 func main() {
6     var x, y int
7     fmt.Scan(&x, &y)
8
9     sum := 0
10    for i := x; i <= y; i++ {
11        sum += i
12    }
13
14    fmt.Println(sum)
15 }
16
```

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TERMINAL OUTPUT DEBUG CONSOLE PROBLEMS 143

PS E:\ngampus\ALGORITMA PROGRAM\GOLANG> go run evaluasi1/soal1.go  
2 100  
5049  
PS E:\ngampus\ALGORITMA PROGRAM\GOLANG>

## Deskripsi program

Menggunakan perulangan untuk menentukan penjumlahan nilai x dan y dengan keluaran berupa hasil penjumlahan semua bilangan dari x sampai y (inklusif)

```
sum := 0
for i := x; i <= y; i++ {
    sum += i
}
```

## 2. SOAL 2

### Source Code

```
package main

import (
    "fmt"
)
```

```

func main() {
    var n int
    fmt.Scan(&n)

    for i := 1; i <= n; i++ {
        fmt.Print(i*i, " ")
    }
}

```

### Screenshoot program

The screenshot shows a Go IDE with the following components:

- Source Code (soal2.go):**

```

1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     var n int
9     fmt.Scan(&n)
10
11     for i := 1; i <= n; i++ {
12         fmt.Print(i*i, " ")
13     }
14 }
15

```
- Terminal Output:**

```

PS E:\ngampus\ALGORITMA PROGRAM\GOLANG> go run evaluasi1/soal1.go
2 100
5049
PS E:\ngampus\ALGORITMA PROGRAM\GOLANG> go run evaluasi1/soal2.go
10
1 4 9 16 25 36 49 64 81 100
PS E:\ngampus\ALGORITMA PROGRAM\GOLANG>

```

### Deskripsi program

Menggunakan perulangan untuk menghitung nilai pangkat dari 1 – n

```
for i := 1; i <= n; i++ {
```

```
        fmt.Print(i*i, " ")
    }
}
```

### 3. SOAL 3

#### Source Code

```
package main

import (
    "fmt"
)

func main() {
    var qirat int

    fmt.Scan(&qirat)

    fals := qirat / 6
    qirat = qirat % 6

    dirham := fals / 10
    fals = fals % 10

    dinar := dirham / 10
    dirham = dirham % 10

    fmt.Print(dinar, dirham, fals, qirat)
}
```

#### Screenshoot program

```
EVALUASI1 > soal3.go > ...
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     var qirat int
9
10    fmt.Scan(&qirat)
11
12
13    fals := qirat / 6
14    qirat = qirat % 6
15
16    dirham := fals / 10
17    fals = fals % 10
18
19    dinar := dirham / 10
20    dirham = dirham % 10

```

RAFLY

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```

TERMINAL OUTPUT DEBUG CONSOLE PROBLEMS 153
PS E:\ngampus\ALGORITMA PROGRAM\GOLANG> go run evaluasi1/soal3.go
1000
1 6 6 4
PS E:\ngampus\ALGORITMA PROGRAM\GOLANG>

```

### Deskripsi program

Mengkonversi bilangan bulat ke mata uang qirat, falsm dirham, dan dinar dengan modulo dan pembagian

```
fals := qirat / 6
qirat = qirat % 6

dirham := fals / 10
fals = fals % 10

dinar := dirham / 10
dirham = dirham % 10
```