Reevanza Abel Desta Arifin_103012330104_Slide3

Soal 1: Permukaan Bola

```go
package main

import "fmt"

func main() {
    var r, pi, lpb float64
    fmt.Scan(&r)

    pi = 22.0 / 7.0

    lpb = 4.0 * pi * (r * r)
    fmt.Println(lpb)
}

// Program permukaanbola

// Kamus
// r, pi, lpb: Real

// Algoritma
// Input(r)
// pi <- 22.0 / 7.0
// lpb <- 4.0 * pi * (r * r)
// Output(lpb)
// End Program
```



```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS
PS E:\Pengpro\Tugas\Week 3> go run permukaanbola.go
7
616
PS E:\Pengpro\Tugas\Week 3> go run permukaanbola.go
3.14
123.94925714285715
PS E:\Pengpro\Tugas\Week 3> go run permukaanbola.go
35
15400
PS E:\Pengpro\Tugas\Week 3>
```

Soal 2: Digit Ganda

```go
package main

import "fmt"

func main() {
    var x, digitPertama, digitKedua, hasil int

    fmt.Scan(&x)

    digitPertama = x / 10
```

```go
        digitKedua = x % 10

        hasil = digitPertama * 1000 + digitPertama * 100 + digitKedua * 10 +
digitKedua

        fmt.Println(hasil)
}

// Program digitganda

// Kamus
// x, digitPertama, digitKedua, hasil: Integer

// Algoritma
// Input(x)
// digitPertama <- x / 10
// digitKedua <- x % 10
// hasil <- digitPertama * 1000 + digitPertama * 100 + digitKedua * 10 +
digitKedua
// Output(hasil)
// End Program
```
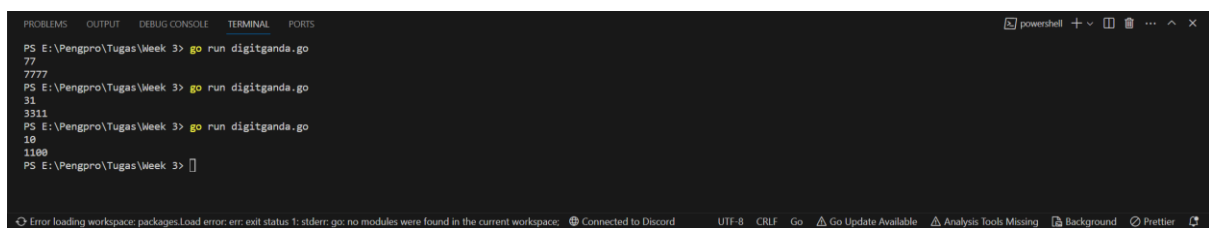


```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                                    powershell  + ∨  ⊞  🗑  …  ∧  ✕
PS E:\Pengpro\Tugas\Week 3> go run digitganda.go
77
7777
PS E:\Pengpro\Tugas\Week 3> go run digitganda.go
31
3311
PS E:\Pengpro\Tugas\Week 3> go run digitganda.go
10
1100
PS E:\Pengpro\Tugas\Week 3> []
⊘ 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   ⚠ Go Update Available   ⚠ Analysis Tools Missing   ⚙ Background   ⊘ Prettier  🔔
```

Soal 3: Kapital

```go
package main

import "fmt"

func main() {
    var x string
    var hasil bool

    fmt.Scan(&x)

    hasil = x >= "A" && x <= "Z"
    fmt.Println(hasil)
}

// Program kapital

// Kamus
```
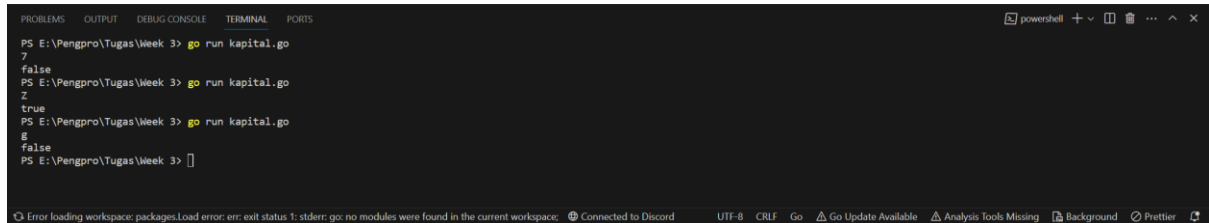
```
// x: String
// hasil: Boolean

// Algoritma
// Input(x)
// hasil <- x >= "A" && x <= "Z"
// Output(hasil)
// End Program
```


Soal 4: Energi

```go
package main

import "fmt"

func main() {
    var e0, c, e1, hasil int

    fmt.Scan(&e0, &c, &e1);

    hasil = (e0 - e1) / c

    fmt.Println(hasil)
}

// Program energi

// Kamus
// e0, c, e1, hasil: Integer

// Algoritma
// Input(e0, c, e1)
// hasil <- (e0 - e1) / c
// Output(hasil)
// End Program
```

```
PS E:\Pengpro\Tugas\Week 3> go run energi.go
1000 50 0
20
PS E:\Pengpro\Tugas\Week 3> go run energi.go
1040 50 0
20
PS E:\Pengpro\Tugas\Week 3> go run energi.go
1000 50 40
19
PS E:\Pengpro\Tugas\Week 3>
```