**Go recursion**

Recursion is the process of repeating the item in selfsimilar way

func recursion(){

recursion()

}

func main(){

recursion()

}

Use of factorial in go with recursion

package main

import "fmt"

func factorial(i int) int {

    if i <= 1 {

        return 1

    }

    return i \* factorial(i-1)

}

func main() {

    x := factorial(4)

    fmt.Println(x)

}

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package main

import "fmt"

func fibonacci(i int) int {

    if i == 0 {

        return 0

    }

    if i == 1 {

        return 1

    }

    return fibonacci(i-1) + fibonacci(i-2)

}

func main() {

    var i int

    for i = 0; i < 10; i++ {

        fmt.Printf("%d \n", fibonacci(i))

    }

}

0

1

1

2

3

5

8

13

21

34