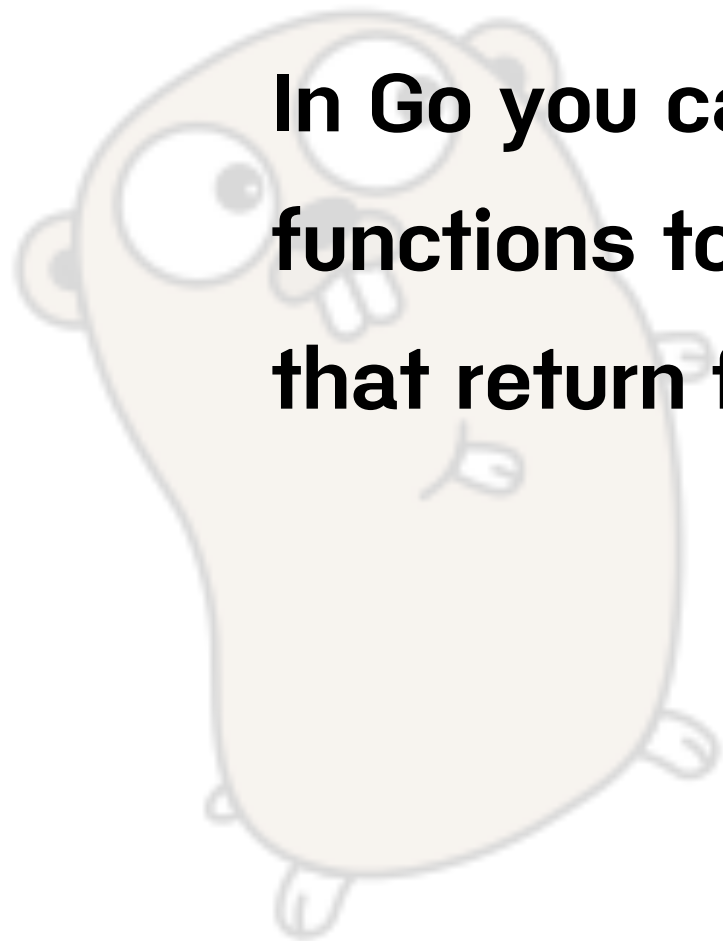



First Class Function

In Go you can assign function to variables, pass functions to functions, and even write functions that return functions.



golang : first class function

create main.go in folder chapter12-1 :



```
func main() {  
    var addVar func(int, int) int  
    addVar = func(a, b int) int {  
        return a + b  
    }  
    fmt.Println(addVar(2, 3))  
}
```


```
func main() {  
    fmt.Println(add(2, 3))  
}  
func add(a, b int) int {  
    return a + b  
}
```

run -> no error -> push to your git repository



golang : first class function

create main.go in folder chapter12-2 :



```
func main() {  
    fmt.Println(  
        func(a, b int) int {  
            return a + b  
        }(2, 3))  
}
```

```
func main() {  
    fmt.Println(add(2, 3))  
}  
func add(a, b int) int {  
    return a + b  
}
```

run -> no error -> push to your git repository



golang : first class function

create main.go in folder chapter12-3 :



```
func main() {  
    addFunc := func(a int) (func(b int) int) {  
        return func(b int) int {  
            return a + b  
        }  
    }  
    add2With := addFunc(2)  
    fmt.Println(add2With(3))  
}
```

```
func main() {  
    fmt.Println(add(2, 3))  
}  
func add(a, b int) int {  
    return a + b  
}
```

run -> no error -> push to your git repository



First Class Function

create main.go in folder chapter12-3 :

Change FizzBuzz to Functional Style

