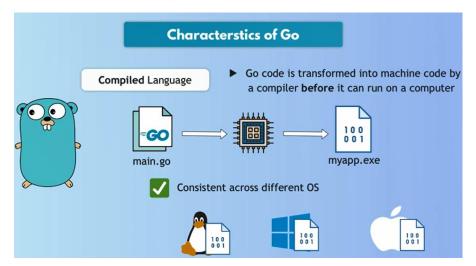
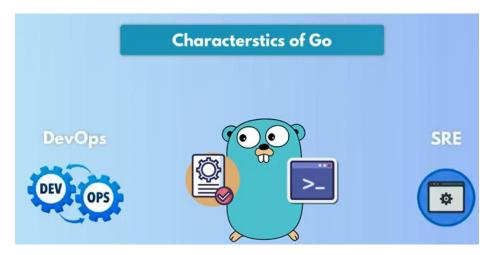


Run The Same Binary For Different OS:





main.go



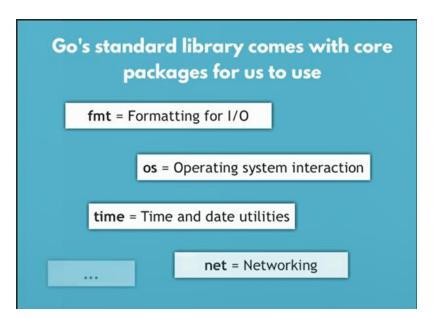
"main.go" - Common practice to name the file containing the entry point of the program

GOROOT and GOPATH

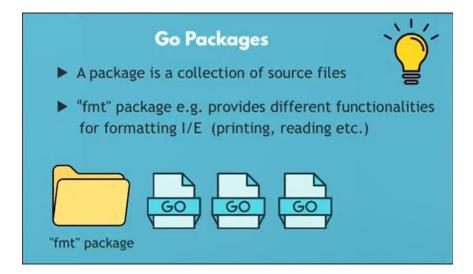


- ► GOROOT tells the system, where the Go SDK is installed
- ► GOPATH defines the workspace for Go projects and packages

Every Thing In Go Organize in packages

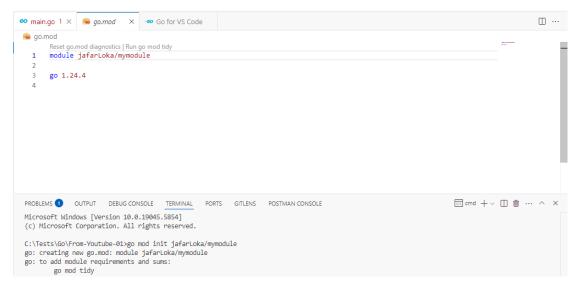


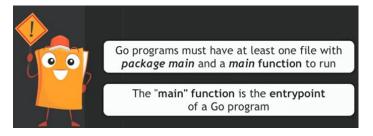
Import = Packages are imported by using the "import" keyword



For Creating New Mod File For Go-Project, We Run Command:

- Command: go mod init companyName/ModuleName
 - o **Example**: go mod init jafarLoka/mymodule





Package Declaration



- ► All Go files start with package
- ▶ Defines the namespace for the code in the file, used to organize and group code
- main package is special, because it indicates that the file belongs to an executable program

To Run The Program: go run main.go

To Compile The Program: go build main.go

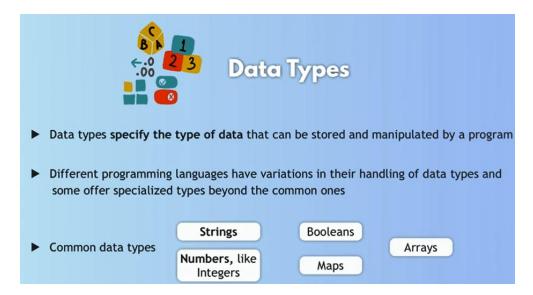
Functions In Go. Starts With: func

The basic I/O library in Go is: fmt

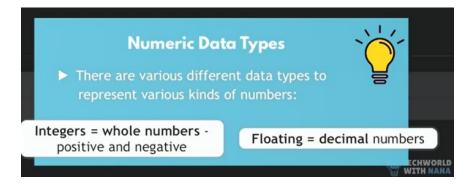
The Basic Structure For Simple Go Program Is:

```
package main

import "fmt"
func main() {
    fmt.Println("Welcome to our Todolist App!")
}
```







To use Variables In go, We Declare Them Using *var-keyword*.

Type Inference



- ► Go can infer the type based on the value assigned to a variable
- ► Go is a statically typed language: once a variable is assigned a type (explicitly or through inference) its type is fixed

The new way to declare the *go-variables* is by using: :=

- ► In every language, you have data types for collection of elements
- In Go, the list data types are



Slices

Arrays and Slices in Go

► Can hold only elements of the same type

