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Golang Programming Interview Questions

Golang is the simple programming language developed at Google. Its simplicity leads to the soaring interest in it. The freshers or beginners to the programming world find it easy to use in order to develop new software.

Though the Golang is still considered as a young programming language, many employers are looking for the Golang Developers. So, in this world of nip and tuck competition, there are a lot of competitors out there to grab the opportunity and make their career in technology. So, you are here with the same intention too. And, we are here to make sure that you grab the opportunity and fly with high colors.

Here we provide you the list of basic Golang interview questions with their answers. They might help you to acquaint yourself with the basic knowledge of the foundation of **Golang programming language**.

Because the interviewers test you at the basics of the subject, and if you prove to be strong at them then it's your day folk. So, tickle your grey cells with these **Golang programming language interview questions** and get brush your knowledge. [Golang Programming Interview Questions](#)

Q1. [What is GO?](#)

It is an open source programming language makes the programmers build a simple, reliable and efficient software easily. The programs are developed from the packages, whose properties allow efficient management of dependencies.

Q2. [What are the structures of syntax in GO?](#)

In GO programming language the syntaxes are specified using EBNF (Extended Backus-Naur Form)

- Production = production name “=” [Expression]
- Expression = Alternative {“1” Alternative }
- Alternative = Term {Term }
- Term = Production name token [“...” token]1 Group 1 Option 1 Repetition
- Group = “(“Expression”)”
- Option = “[“Expression”]”
- Repetition = “{“Expression”}”

Q3. [Explain workspace in GO?](#)

A code has to be kept inside a workspace GO. A workspace is defined as a directory hierarchy with three directories.

- pkg contains package objects.
- the bin contains executable files

- src contains GO source file arranged systematically into packages.

Q4. Can you perform testing in GO? Explain how can do it?

Yes, it has a testing framework which comprises of the go test command and the testing package. In order to write a test, you are required to create a file whose name ends with `_testing`. Go contains function named `TestXXX` with the signature `func(t*testing.T)`.

Q5. State the advantages of GO?

Following are the advantages of GO:

- Functions are first-class objects in GO.
- Go compiles very quickly.
- Strings and Maps are built into the language.
- Go supports concurrency at the language level.
- Go has garbage collection.

Q6. Mention the built-in support in GO?

Following are the available built-in- support in GO

- Web Server: `net/http`
- Database: `database/sql`
- Container: `container/list`, `container/heap`
- Cryptography: `Crypto/md5`, `crypto/sha 1`
- Compression: `compress/gzip`

Q7. Can you explain GO Interfaces?

The GO interfaces are a way to specify the behavior of the objects. It is created by using the “type” word, followed by a name and the keyword `interface`. The interface is specified as:

- A set of methods
- And also referred to as type.

Q8. Explain the packages in GO program?

The Go program is made up of packages. The program begins running in the package `main` and this program is using the packages with `import` paths “`fmt`” and “`math/rand`”.

Q9. Explain string types?

The string types represent the set of string values, and the string values are the sequence of bytes.

And, once a string is created it is impossible to change it.

Q10. Explain how arrays in GO work differently than in C?

- If you pass an array to a function, it will receive the copy of the array and not the pointer to it.
- Arrays are values, assigning one array to other copies all the elements.
- The size of an array is part of its type The type `int[20]` and `int[10]` are distinct.

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