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CRASH COURSE

CORE GO PROGRAMMING

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SR. CODE

EAPL/CRASH/CRTC11

COURSE CODE

EACGO

SUB CATEGORY

SOFTWARE DEVELOPMENT

TOTAL DURATION	THEORY TAKEN	PRACTICAL TAKEN
45 HOURS	12 HOURS	33 HOURS

PROGRAMMING ELYSIUM ACADEMY CORE GO

COURSE DESCRIPTION

The Core Go Programming course introduces participants to the fundamentals of the Go programming language, commonly referred to as Golang. Participants will learn key concepts such as syntax, data types, control structures, functions, and concurrency patterns.

COURSE GOALS

The goal of the Core Go Programming course is to equip participants with the knowledge and skills necessary to become proficient Go developers. By the end of the course, participants will be able to design and implement robust, high-performance applications and services using Go.

FUTURE SCOPE

Proficiency in Go programming opens doors to a variety of career opportunities, including roles such as Go developer, backend developer, systems programmer, and cloud engineer. As Go continues to gain traction in industries such as cloud computing, microservices architecture, and distributed systems, skilled Go developers are in high demand.

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01 CHAPTER

Introduction

1. Go Programming Language (Introduction)
2. How to Install Go on Windows?
3. How to Install Golang on MacOS?
4. Hello World in Golang

1.5 HRS
1.5 HRS

02 CHAPTER

Fundamentals

1. Identifiers in Go Language
2. Go Keywords
3. Data Types in Go
4. Go Variables
5. Constants- Go Language
6. Go Operators

01 HRS
02 HRS

03 CHAPTER

Control Statements

1. Go Decision Making (if, if-else, Nested-if, if-else-if)
2. Loops in Go Language
3. Switch Statement in Go

1.5 HRS
03 HRS

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04 CHAPTER

Functions & Methods

01 HRS
04 HRS

1. Functions in Go Language
2. Variadic Functions in Go
3. Anonymous function in Go Language
4. main and init function in Golang
5. What is Blank Identifier(underscore) in Golang?
6. Defer Keyword in Golang
7. Methods in Golang

05 CHAPTER

Structure

1.5 HRS
05 HRS

1. Structures in Golang
2. Nested Structure in Golang
3. Anonymous Structure and Field in Golang

06 CHAPTER

Arrays

01 HRS
04 HRS

1. Arrays in Go
2. How to Copy an Array into Another Array in Golang?
3. How to pass an Array to a Function in Golang?

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07 CHAPTER

Slices

1. Slices in Golang
2. Slice Composite Literal in Go
3. How to sort a slice of ints in Golang?
4. How to trim a slice of bytes in Golang?
5. How to split a slice of bytes in Golang?

30 MINS
03 HRS

08 CHAPTER

Strings

1. Strings in Golang
2. How to Trim a String in Golang?
3. How to Split a String in Golang?
4. Different ways to compare Strings in Golang

30 MINS
03 HRS

09 CHAPTER

Pointers

1. Pointers in Golang
2. Passing Pointers to a Function in Go
3. Pointer to a Struct in Golang
4. Go Pointer to Pointer (Double Pointer)
5. Comparing Pointers in Golang

01 HRS
04 HRS

10 CHAPTER

Concurrency

1. Goroutines - Concurrency in Golang
2. Select Statement in Go Language
3. Multiple Goroutines
4. Channel in Golang
5. Unidirectional Channel in Golang

01 HRS
05 HRS

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