01 Variables :

Declaring a single variable

- **var name type** is the syntax to declare a single variable.

- If a variable is not assigned any value, go automatically initialises it with the **zero value** of the variable's type

Declaring a variable with initial value

A variable can also be given a initial value when it is declared.

var name type = initialvalue is the syntax to declare a variable with initial value.

Type inference

If a variable has an initial value, Go will automatically be able to infer the type of that variable using that initial value. Hence if a variable has an initial value, the *type* in the variable declaration can be omitted.

If the variable is declared using the syntax **var name = initialvalue**, Go will automatically infer the type of that variable from the initial value

Short hand declaration

Go also provides another concise way for declaring variables. This is known as short hand declaration and it uses **:=** operator.

name := initialvalue is the short hand syntax to declare a variable.