/\* Functions \*/

/\*

\* Functions types

\*/

mut f i32 = 55

funcType type = fn (i32, u32) i32

#fnType funcType

fn addIU (x i32, y u32) i32 {

ret x + y

}

/\*

\* functions can have multiple return values

\* NOTE: this is greate to return error codes!

\*/

fn divide (x i32, y u32) i32, error #must {

if y == 0 {

ret 0, error(-1, “Division by zero”)

}

ret x + y, nil

}

fn myProgram () i32 {

mut x i32; mut y i32 = 8

c i32 = 100

x = y

y = f

mut f := c \* (x + y) % 62

[x, y] captureXY {

/\* local scope that captures outer variables \*/

/\* name is optional just to better reading \*/

}

namedScope {

/\* local scope to reduce procedure namespace overhead \*/

/\* name is optional just to better reading \*/

/\* every outer variable is available \*/

}

ret f

}

#main

fn main (args string[]) i32 {

ret myProgram()

}