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"""#-------------------------------------------------------------------------------------#"""
"""#----------------------       METU Cognitive Sciences       ----------------------#"""
"""#----------------------        Symbols & Programming        ----------------------#"""
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"""#-------------------------------------------------------------------------------------#"""



"""-------------------------------------------------------------------------------------"""
"""------------------                  Exercise 1.1                  ------------------"""
"""-------------------------------------------------------------------------------------"""

; Define a procedure that takes two numbers and returns their average.

 (defun avg (x y) (/ (+ x y) 2))

"""-------------------------------------------------------------------------------------"""
"""------------------                  Exercise 1.2                  ------------------"""
"""-------------------------------------------------------------------------------------"""

; Define a procedure that takes two numbers and returns the number obtained by dividing their
; product by their average. For the inputs 3 and 4, your program must return 12/3.5. In your
; solution, use the procedure you defined for Exercise 1.1.

(defun func1 (x y) (/ (* x y) (avg x y) ) )

"""-------------------------------------------------------------------------------------"""
"""------------------                  Exercise 1.3                  ------------------"""
"""-------------------------------------------------------------------------------------"""

; Define a function that takes three arguments x, y and n, and returns the result of the following function:

; A x B  = (A1 / A2)  X  (B1  /  B2)   =  (A1  /  (a2 / a3))   X  ( (b1 + b2)  /  (B2))


(defun func2 (x y n)  (* (/ (expt x n) (- 7 (/ y 2)) )     (/ (+ (expt y (/ 2 3)) 17) 4)))

"""-------------------------------------------------------------------------------------"""
"""------------------                  Exercise 1.4                  ------------------"""
"""-------------------------------------------------------------------------------------"""


; In order to convert a temperature in Fahrenheit into Celsius, you need to subtract
; 32 from it and multiply the result by 5/9. Define a procedure that converts from
; degrees Fahrenheit to degrees Celsius.

(defun convertFtoC (f)  (* (/ 5 9) (- f 32)))
```