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;;;;; MIT 6.001 Fall/1999
;;;;; Daniel Jackson - Recitation 1: Interpreters & Evaluation
;;;; Student: Abrantes Araújo Silva Filho
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;;; Evaluate:
(+ 1 2)
; 3
(*35)
; 15
(/23)
; 2/3 (exacty number)
(* (+ 1 2) 5)
; 15
(> 4 3)
; #t
(< 4 3)
; #f
; compound-procedure
(3)
; ERROR, the "3" is been applied to nothing
(if true 1 2)
; 1. "true" is bound to boolean #t value
(if false 1 2)
; 2. "false" is bound to boolean #f value
(if (> 4 3) 1 2)
; 1
(if (> 4 3) + *)
; compound procedure
((if (> 4 3) + *) 2 3)
; 5
;;; Understanding define
(define x 2)
; bound the name "x" to the value of expression "2", wich is 2
(+ x 3)
; 5
; ERROR, the name "y" is not bound to anything
(define y 5)
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; bound the name "y" to the value of expression "5", wich is 5
(+ x y)
; 7
;;; Some procedures
(define (f a) (+ a 2))
; creates a f procedure wich adds 2 to argument
(f 3)
; 5
(define a 5)
; bound "a" to 5
(define (g a) (+ a b))
; creates the g procedure, which sum its argument to the value of b
; ERROR, "b" is not defined
(define b 4)
; bound "b" to 4
(g 3)
; 7
;;; Create a procedure that computed the area of a disk with inner
;;; radius i and outer radius o
(define pi 3.14)
(define (quadrado x) (* x x))
(define (area-circulo raio) (* pi (quadrado raio)))
(define (area-anel o i)
  (- (area-circulo o) (area-circulo i)))
; test cases:
(area-circulo 5)
(area-circulo 2)
(- (area-circulo 5) (area-circulo 2))
; procedure test:
(area-anel 5 2)
```