Quiz 0.2a

1. (3 points) What will Scheme print? If it causes an error, write Error.
   1. (define (double x) (\* 2 ‘x))

(double 4)

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* 1. (define x 10)

(define (square x) (\* x x))

(square 3)

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* 1. (define (mystery wd)

(sentence (first wd) (bf (bf wd))))

(mystery ‘hello)

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1. (3 points) Suppose we gave you a procedure month which took a number between 1 and 12 and returned the name of the corresponding month (as a word). Write a procedure dateformat which works like this:

> (dateformat ‘(8 29 2012))

(august 29 2012)

1. (4 points) Consider what happens when you type (1 + 2) into the interpreter:
   1. How does Scheme try to evaluate this expression?
   2. At which point in the process does Scheme realize that there is an error?
   3. What is the rule about procedure application that this expression did not follow?