**CEIS 420 Week 7 Homework**

**Name:**

**Question 1**

What would the following Scheme commands return?

1. (car '(mm dd ee))
2. (eq? ‘G ‘C)
3. (cdr ‘(I love ceis420))

Answer:

1. **mm**
2. **#f**
3. **love ceis420**

**Question 2**

Create a loop in Scheme that will display integers from 1 to 15

Answer:

**(define (fifteen x)**

**(display x)**

**(newline)1**

**(if (< x 15)**

**(fifteen (+ x 1))))**

**Question 3**

Research F#, ML, Scheme, and LISP. Which is the most popular? What industries are using functional programming?

Answer:

**It seems that F# is the most popular, and I can only expect that to be the availability of the language as well as the fact that it is coming from the same people that maintain the C family – and people tend to stick with what they know. Now, I put my vote in for F# as well due to that same thing, and the documentation provided would assist in me actually learning the language easier, but different lists do provide some different answers based on what the lists are rating even with popularity being the main rating.**

**The biggest supporter of functional languages at the moment are e-commerce businesses, and especially with the move to shop more online I only see this taking more of the industry share in the future.**