CS 1320 – Fundamentals of Programming
Study Guide
Competency Demo #1

Key Concepts:
- Algorithm
  - Program
- Loops (Iteration)
- Conditionals (Selection statements)
- Data/Variable
- Events
- Function

Questions
1. What is the definition of [Enter any key concept here]?

2. If you wanted to give your students a real world (non-computer) example of a [Enter any key concept here] to help them understand the idea, what example would you give them and why?

3. When/how would we use a [Enter any key concept here] in a Scratch computer program?

4. If you wanted to explain [Enter any key concept here] in Scratch what specific example would you use and why?

5. Why might we decide to use Scratch as an instruction language for a middle/high school student?

6. Give one example of a program that middle/high school student could write that would connect CS to another class that student is taking.

7. Consider the following block of code. What does it do? [sample code would follow]

8. Suppose you wanted to write a scratch program to do [some task. Eg. draw a square, add one point to the score when you touch an apple sprite, ask a user their name and then say "Hello [that name]"] what code/blocks would you use? Explain the code.