**Name:**

**ID:**

**M3 Assignment 01**

Use the following book as a reference to answer the following questions: <http://interactivepython.org/runestone/static/thinkcspy/GeneralIntro/intro-TheWayoftheProgram.html>

1. Describe computer scientists (**1.1**):
2. Name a career for an individual with a computer science degree (**1.1**):
3. What is an algorithm (**1.2**)?
4. Design an algorithm for making a peanut butter and jelly sandwich (**1.2**):
5. Compare and contrast high-level and low-level programming languages **(1.3)**:
6. What is an interpreter **(1.3)**:
7. What is a compiler **(1.3)**:
8. What ending do python program files have **(1.3)**:
9. Describe 3 logical operations **(1.5)**:
10. What is a program, in your own words **(1.5)**:
11. What is a bug in a program **(1.6)**:
12. What is debugging **(1.6)**:
13. Name 3 types of errors **(1.6)**:
14. Who or what typically finds syntax errors **(1.7)**?
15. What is an exception **(1.8)**?
16. What happens if I divide by 0 in Python **(1.8)**?
17. What is a semantic error **(1.9)**?
18. Basic elements of a formal language such as words, numbers, or chemical elements are referred to as what **(1.11)**?
19. What are formal languages and how are they different than natural languages **(1.11)**?
20. Is Python a natural or a formal language **(1.11)**?
21. Define is ambiguity **(1.11)**?
22. Define redundancy **(1.11)**?
23. A typical first program may look like: print("Hello, World!") ; how can you modify this program to say hello to yourself? (**1.12**)
24. What does the print function do? (**1.12**)
25. What symbol is used for comments in Python? (**1.13**)
26. Top of Form
27. Bottom of Form