CSCI 141 Midterm Review topics

There will be tasks drawn from:

1. Weekly Quizzes
2. Textbook
3. Sample questions posted to Canvas
4. Handouts posted on Canvas
5. Questions in slides
6. Labs
7. Syllabus
8. Assignments

Topics:

1. Week 1
   1. Print()
   2. Parts of a computer
      1. CPU
      2. Hard drives
      3. RAM
   3. What is an algorithm
   4. What is pseudocode
2. Week 2
   1. What is a data type
   2. str()
   3. int()
   4. float()
   5. input()
   6. type()
   7. Variables
   8. Assignment operator
   9. Binary and decimal conversion
   10. bits
   11. ASCII
   12. System arguments
   13. newline
   14. Variable naming conventions
   15. Sep
   16. End
   17. Modulus
3. Week 3
   1. Keywords
   2. Unicode
   3. Debugging
   4. \* and + with strings
   5. Bool data type
   6. Arithmetic comparison operators
   7. And
   8. Or
   9. Not
   10. Truth tables
   11. ==
   12. !=
   13. XOR
   14. If statements
   15. Else statements\ Elif
   16. Operators
   17. Operands
   18. Difference between statement and expression
   19. Function evaluation and returns
   20. Order of operations
   21. Floating point and integer division
4. Week 4
   1. While
   2. Inplace operators -= += etc
   3. Random
   4. Import
   5. For loops
   6. Nested for loops
   7. Nested while loops
   8. Lists
   9. Range
   10. Turtles
5. Week 5
   1. More range
   2. Nested lists
   3. Objects
   4. Methods
   5. Functions
      1. Parameters and arguments
      2. Return values
      3. Variable scope
      4. Global variables vs local variables
   6. Functions calling functions
   7. Strings as sequences
   8. String indexing