

9.10 Exercises

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- 1) An object is an instance of a class
- 2) Attributes and fields
- 3) Operations
- 4) The period
- 5) A method is associated with an object and are defined inside of classes while functions are reusable pieces of code that are defined outside of classes.
- 6) The strip method
- 7) len()
- 8) It returns a file object (a TextIOWrapper object)
- 9) mode ('r' for reading, 'w' for writing and 'a' for appending)
- 10) Answer in python file
- 11) Answer in python file
- 12)
 - a. `a.__sub__(b)` is $a - b$
 - b. `a.__eq__(b)` is $a == b$
 - c. `a.__neg__()` is $-a$
 - d. `a.__gt__(b)` is $a > b$
- 13) Using a Turtle object instead of the global functions organizes the code into functions and makes it easier for reuse.

14) Answer in python file

15) Python strings are immutable.

16) We wouldn't be able to move a turtle object, change its orientation and change its pen color.

17) Garbage is memory allocated by an executing program that the program can't access anymore.

18) It's a process that the Python interpreter uses to clean up garbage. It uses reference counting garbage collector to reclaim the occupied space.

19)

a. 2

b. No

c. yes