Python basics assignments-11

1. assert spam >= 0, "spam must be a non-negative integer"
2. assert eggs.lower() != bacon.lower(), "eggs and bacon must be different strings"
3. assert False, "This assert statement will always trigger an AssertionError"
4. import logging logging.debug("debug message")
5. import logging logging.basicConfig(filename='programLog.txt', level=logging.DEBUG) logging.debug("debug message")
6. The five levels of logging are: DEBUG, INFO, WARNING, ERROR, and CRITICAL.
7. logging.disable(logging.CRITICAL)
8. Using logging messages allows you to specify the level of the message (e.g. debug, info, warning, error, critical), which can be useful for filtering the messages that are displayed or logged. Additionally, logging messages can be sent to multiple output locations (e.g. stdout, file, network stream) at the same time, while print statements can only be sent to stdout.
9. Step Over: Execute the current line of code and move to the next line, without entering any function calls. Step In: Enter a function call and stop at the first line of the function. Step Out: Exit the current function and stop at the next line of the calling function.
10. The debugger will stop at the next breakpoint or when the program finishes execution.
11. A breakpoint is a point in the program where the debugger will pause execution and allow you to examine the state of the program. You can set breakpoints in the code to help you find bugs or understand how the program is executing.