1. Create an assert statement that throws an AssertionError if the variable spam is a negative integer.

Ans:

Assert spam >= 1 . ‘The spam variable is less than 1’.

2. Write an assert statement that triggers an AssertionError if the variables eggs and bacon contain strings that are the same as each other, even if their cases are different (that is, ‘ hello’ and ‘hello’ are considered the same, and ‘goodbye’ and ‘GOODbye’ are also considered the same).

Ans:

assert eggs.lower()! = bacon.lower()

assert eggs.upper()! = bacon.upper()

3. Create an assert statement that throws an AssertionError every time.

Ans:

assert False , ‘This assertion always trigger ‘ .

4. What are the two lines that must be present in your software in order to call logging.debug()?

Ans:

Import logging

logging.basicConfig( filename = ‘XYZ.log’ , level = logging.DEBUG )

5. What are the two lines that your program must have in order to have logging.debug() send a logging message to a file named programLog.txt?

Ans:

Import logging

logging.basicConfig( filename = ‘programLog.txt’ , level = logging.DEBUG

6. What are the five levels of logging?

Ans:

DEBUG -- INFO -- WARNING -- ERROR -- CRITICAL

7. What line of code would you add to your software to disable all logging messages?

Ans:

logging = logging.getlogger(‘ file name ’)

8.Why is using logging messages better than using print() to display the same message?

Ans:

Because by using logging we can track our codes and thus we can formats the codes based on need/statements .

9. What are the differences between the Step Over, Step In, and Step Out buttons in the debugger?

Ans:

Step over will allow the debugger to execute the next function and break afterward , Step In will let the debugger to go to the next function call and break afterward Vs Step Out will let debugger to execute the present function and break afterward .

10.After you click Continue, when will the debugger stop ?

Ans:

After we click Continue , debugger stop when it encountered breakpoint .

11. What is the concept of a breakpoint?

Ans:

It’s point being set by user where we want to pause debugging execution .