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```
In [1]: # Q1
        spam = 100
        # Remember, if you want it to throw error if it is less than 10
        # then you have to test if it is greater than 10.
        # Less than 10 is the error condition, not the expression for assert.
        assert spam >= 10, 'Your spam is less than 10!'
In [2]:
       # Q2
        eggs = 'hello'
        bacon = 'good bye'
        # Raise an AssertError if they are not different.
        assert eggs.lower() != bacon.lower(), 'eggs/bacon should not be the same!'
In [3]: # Q3 assert True, 'Always triggers an AssertionError.'
In [ ]:
        # 04
        # Test a Logging.debug('message')
            2019-08-03 12:24:50,549 - DEBUG - This is a test message.
        # Logging.debug('This is a test message.')
        # Q5
In [4]:
        import logging
        logging.basicConfig(
            filename='programLog.txt',
            level=logging.DEBUG,
            format='%(asctime)s - %(levelname)s - %(message)s'
        )
In [5]: # Q6
        # Logging.debug() - variable's state and small details
        # Logging.info() - general events, confirm a program is working
        # logging.warning() - potiental problem to work on in the future
        # logging.error() - record an error that caused program to fail to do something
        # logging.critical() - fatal error that has caused
In [6]: # Q7 Logging.disable(Logging.DEBUG)
In [7]: #Q8 # Because with print, when your program is ready for production, you still
        #
              have to "remove" or comment it out. Verses logging message, you can toggle
              the setting on/off or write to a file (send to a server). It is more flexible
              especially with logging level 1-5.
In [8]: # Q9 Step - one line execution at a time
        # Over - excecute the next line of code, but if it is a program, it will
                 complete the entire function call.
        # out - execute the lines of code unti it returns from the current function.
                 (out is useful when you stepped into a function call).
In [9]:
        # Q10 Go runs until the program terminate or reaches a breakpoint set.
```

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In []: # Q11 # When you have Debugger enabled and you can right click on any lines to create a breakpoint. During Go - it will stop there and await your next command.