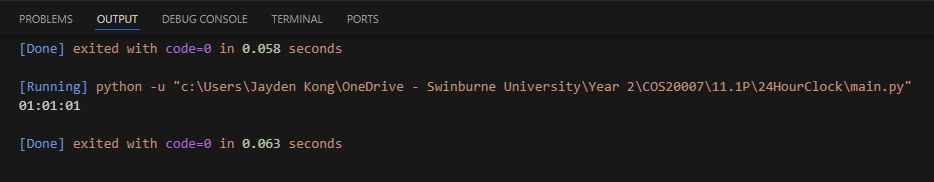
**11.1P - Clock in Another Language**

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Program was done in python

Screenshot of output (01:01:01):



Counter class:

class Counter:

    def \_\_init\_\_(self, name):

        self.\_name = name

        self.\_count = 0

    @property

    def name(self):

        return self.\_name

    @name.setter

    def name(self, value):

        self.\_name = value

    @property

    def ticks(self):

        return self.\_count

    def increment(self):

        self.\_count += 1

    def reset(self):

        self.\_count = 0

Clock class:

from counter import Counter

class Clock:

    def \_\_init\_\_(self):

        self.\_seconds = Counter("seconds")

        self.\_minutes = Counter("minutes")

        self.\_hours = Counter("hours")

    @property

    def time(self):

        return "{:02d}:{:02d}:{:02d}".format(self.\_hours.ticks,

self.\_minutes.ticks, self.\_seconds.ticks)

    def tick(self):

        self.\_seconds.increment()

        if self.\_seconds.ticks == 60:

            self.\_minutes.increment()

            self.\_seconds.reset()

            if self.\_minutes.ticks == 60:

                self.\_hours.increment()

                self.\_minutes.reset()

                if self.\_hours.ticks == 24:

                    self.\_hours.reset()

    def reset(self):

        self.\_seconds.reset()

        self.\_minutes.reset()

        self.\_hours.reset()

Main:

from clock import Clock

my\_clock = Clock()

for i in range(3661):

    my\_clock.tick()

print(my\_clock.time)      # Prints 01:01:01