**main.py**

from psuedoSensor import PseudoSensor

ps = PseudoSensor()

for i in range(30):

    h,t = ps.generate\_values()

    print("i ",i)

    print("H ",h)

    print("T ",t)

**psuedoSensor.py**

import random

class PseudoSensor:

    h\_range = [0, 20, 20, 40, 40, 60, 60, 80, 80, 90, 70, 70, 50, 50, 30, 30, 10, 10]

    t\_range = [-20, -10, 0, 10, 30, 50, 70, 80, 90, 80, 60, 40, 20, 10, 0, -10]

    h\_range\_index = 0

    t\_range\_index = 0

    humVal = 0

    tempVal = 0

    def \_\_init\_\_(self):

        self.humVal = self.h\_range[self.h\_range\_index]

        self.tempVal = self.t\_range[self.t\_range\_index]

    def generate\_values(self):

        self.humVal = self.h\_range[self.h\_range\_index] + random.uniform(0, 10);

        self.tempVal = self.t\_range[self.t\_range\_index] + random.uniform(0, 10);

        self.h\_range\_index += 1

        if self.h\_range\_index > len(self.h\_range) - 1:

            self.h\_range\_index = 0

        self.t\_range\_index += 1

        if self.t\_range\_index > len(self.t\_range) - 1:

            self.t\_range\_index = 0

        return self.humVal, self.tempVal