



```
from machine import Pin, PWM

motor = PWM(Pin(16)) # DC motor control from GPIO16
motor.freq(1000) # set frequency to 1KHz -- DO NOT CHANGE
motor.duty_u16(32768) # 0-65535 for duty cycle range 0-100

#####
# NOTE: The DC motor of the fan is NOT BRUSHED      #
# Keep the duty cycle above 35%                      #
#####

# YOUR CODE HERE

duty_cycle = 0.35 # set duty cycle

while True:
    convert_dc = int(duty_cycle * 65535) # convert duty cycle to an integer 0 to 65535
    motor.duty_u16(convert_dc) # set motor pin to new duty cycle
```