Turning the 7 Segment Display into a digital clock



Python has a library called time We have used the sleep module from time Remember this:

from time import sleep sleep(5) - gives us a 5 seconds delay

time has another module/function called localtime from time import localtime

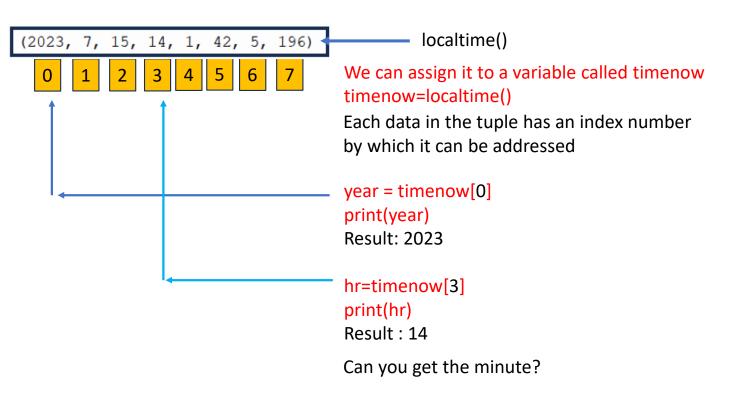
```
>>> from time import localtime
>>> print(localtime())
(2023, 7, 15, 14, 1, 42, 5, 196)
```

localtime() gives us the current date time information It is organized as a tuple.

A tuple is a collection of data, separated by comma inside 2 round brackets (Y, M, D, H, M, S, Day of Week, No of days from Jan 1)

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Once you know how to get the hr and min from localtime() you can send the hr and min data to the 7 segment display

To show the hr and min on the 7 segment display: tm.number(hr,min)

This is Ex 2.

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Complete the following, to turn the display into a digital clock You only need to refresh the display only after 1 minute as this digital clock do not show time in seconds. You need sleep(??)

import tm1637
from machine import Pin
from time import sleep, localtime
tm = tm1637.TM1637(clk=Pin(5), dio=Pin(4))
tm.show(" ") #to blank out the display
while True:

Please give Ex2 your best shot. Send me your surrender emoji and I will dispatch the answer to you.