

Verificación pre-silicio Primavera 2022



Lab#3B: python_scripts

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Hermosillo, Son. 31 de mayo de 2022.

Write a program called ex_2, which asks for two points in two-dimensional space and calculates the mean according to the formula:

$$\text{Be } \vec{a} = (a_x, a_y) \text{ y } \vec{b} = (b_x, b_y) \text{ entonces } \vec{m} = \vec{a} + \vec{b} = \left(\frac{a_x + b_x}{2}, \frac{a_y + b_y}{2} \right)$$

```
main.py
1- class point:
2-     def __init__(self, a, b):
3-         self.a = a
4-         self.b = b
5-     def __str__(self):
6-         return '{} {}'.format(self.a, self.b)
7-
8- def mean(x, y):
9-     #build point a,b
10-    a = (x.a + y.a)/2
11-    b = (x.b + y.b)/2
12-
13-    #build mean
14-    return point(a, b)
15-
16- x = point(1, 5)
17- y = point(5, -2)
18-
19- m = mean(x, y)
20-
21- print('The mean is: ', m)
```

Shell

The mean is: 3.0, 1.5

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Write a program called ex_3, which given an integer, that express a time period in seconds, print the equivalent in days, hours, mins and seconds. For example: 300000 seconds will be 3 days, 11 hours, 20 mins y 0 seconds. Or 7400 seconds Will be 0 days, 2 hours, 3 mins y 20 seconds.

main.py	  Run	Shell
<pre>1 2 Sec = int (input("input Seconds: ")) 3 4 days=Sec/86400 5 hours=((days-round(days))*24) 6 min=(hours-round(hours))*60 7 sec=(min-round(min))*60 8 print("days: ",int(days),"hours: ",int(hours),"minutes: ",int(min),"seconds: ",int(sec))</pre>		<pre>input Seconds: 300000 days: 3 hours: 11 minutes: 20 seconds: 0 > </pre>