

Verificación pre-silicio Primavera 2022



Lab#4: list and tuples

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Hermosillo, Son. 1 de Junio de 2022.

1. Review the next resources

- <https://docs.python.org/3.8/tutorial/introduction.html>
- <https://entrenamiento-python-basico.readthedocs.io/es/latest/leccion3/index.html>

2. Execute the next exercises

- Write an expression whose value is the average of the elements of the list [20, 10, 15, 75].

```
main.py  [ ] [ ] [ ] Run Shell
1 listA= 20,10,15,75
2 elements=len(listA)
3 add=0
4 for i in listA:
5     add=add+1
6 prom=add/elements
7 print (prom)
8
```

30.0
> |

- Write a Python program which accepts a sequence of comma-separated numbers from user and generate a list with those numbers.

```
main.py  [ ] [ ] [ ] Run Shell
1 stringA= input("enter list by comma separated: ")
2 listA=stringA.split(",")
3
4
5 print (listA)
6
```

enter list by comma separated: 3,6,5,7,4,6
['3', '6', '5', '7', '4', '6']
> |

- Write a program in a file named movie_friends.py that will produce a session something like this:

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```
> python movie_friends.py  
Hmmm... You have 5 tickets to that new movie everyone wants to see.  
Whom should you invite to go with you?  
Enter the name of friend one: Sean  
Your invite list now contains: ['Sean']  
Enter the name of friend two: Jonathan  
Your invite list now contains: ['Sean', 'Jonathan']  
Enter the name of friend three: Margot  
Your invite list now contains: ['Sean', 'Jonathan', 'Margot']  
Enter the name friend four: Justin  
Your invite list now contains: ['Sean', 'Jonathan', 'Margot', 'Justin']  
Great! You are ready to go to the movie...  
>
```

main.py	Run	Shell
<pre>1 2 listA=('one','two','tree','four','five') 3 4 names=[] 5 for a in range(0,len(listA)): 6 x=input('set name of friend {0}: '.format(listA[a])) 7 names.append(x) 8 print ("now your list contains: ", names) 9 print ("Great! you are ready to go to the movie") 10 11</pre>		<pre>set name of friend one: christian set name of friend two: juan set name of friend tree: carlos set name of friend four: max set name of friend five: rene now your list contains: ['christian', 'juan', 'carlos', 'max', 'rene'] Great! you are ready to go to the movie > </pre>