ASSIGNMENT-3

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Exercises

Answer the questions or complete the tasks outlined in bold below, use the specific method described if applicable.

"What is 7 to the power of 4?"

In [7]: | 7 **4

Out [7]: | 2401

"Split this string:"

s = "hi there San!"

"Into a list."

In [5]: | s = ["Hi", "there", "San!"]

In [6]: | s

Out [6]: ["Hi", "there", "San!"]

"Given the variables:"

planet = "Earth"

diameter = 12742

"Use .format) to print the following string: "

The diameter of Earth is 12742 kilometers.
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"Given the variables."

planet = "Earth"
diameter = 12742

"Use format() to print the following string: "

The diameter of Earth is 12742 kilometers.

In [22]: planet = "Earth"
diameter = 12742

In [23]: print("The diameter of {} is {} kilometers, "format(planet, diameter))

The diameter of Earth is 12742 kilometers.

"Given this nested list, use indexing to grab the word "helo" "

In [9]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

in [10]: lst[3][1][2][0]

Out[10]: 'hello'

"Given this nest dictionary grab the word "helo". Be prepared, this will be annoying/tricky "

In [11]: d = ('ki':[1,2,3,('tricky':['oh', 'man', 'inception', ('target':[1,2,3,'hello'])]]))

In [12]: d['ki'][3]['tricky'][3]['target'][3]
```

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"Given this nest dictionary grab the word "helio". Be prepared, this will be annoying/tricky "

In [i1]: d = { k1': [s,z,3,'tricky': ['oh', 'san', 'inception', { 'target': [s,z,3, 'hello']}]}} 
In [i2]: d['k1'][3]{ 'target'}[3]

Out[12]: 'hello'

"What is the main difference between a tuple and a list? "

In []: # Tuple is immutable

"Create a function that grabs the email website domain from a string in the form: "

user@domain.com

So for example, passing "user@domain.com" would return: domain.com

In [i3]: def domainGet(email):
    return email.split('@')[-1]

In [i4]: domainGet('user@domain.com')

Out[14]: 'domain.com'

"Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation being attached to the word dog, but do account for capitalization. ""
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```
"Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation being attached to the word dog, but do account for capitalization."
    In [15]: def findDog(st):
    return 'dog' in st.lower().split()
    In [16]: findDog('Is there a dog here?')
    Out[16]: True
                                   ** Create a function that counts the number of times the word "dog" occurs in a string. Again ignore edge cases. **
  In [18]: countDog('This dog runs faster than the other dog dudel')
    Out[18]: 2
                                   "You are driving a little too fast, and a police officer stops you. Write a function to return one of 3 possible results. "No ticket", "Small ticket", or "Big Ticket", if your speed is 00 or less, the result is "One Ticket", if speed is 0 for more, the result is "Big Ticket", if speed is 0 for more, the result is "Big Ticket", if speed is 0 for more, the result is "Big Ticket", if speed is 0 for more, the result is "Big Ticket", if speed is 0 for more is a more interested of the Internation of the principle of the speed is 0 for more interested of the Internation of the Intern
    In [19]: def caught speeding(speed, is birthday):
                                       if is_birthday:
    speeding = speed - 5
else:
    speeding = speed
                                      if speeding > 80:
return 'Big Ticket'
elif speeding > 60:
return 'Small Ticket'
else:
return 'No Ticket'
In [20]: caught_speeding(81,False)
Out[20]: 'Big Ticket'
In [21]: caught_speeding(81,True)
 Out[21]: 'Small Ticket'
                               Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each employee salary and calculate total salary expenditure.
  In [25]: import pandas as pd
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Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retreive each employee salary and calculate total salary expenditure.

In [23]: deport pands as a pd sapert pands as a pd salary many as np

In [26]: df = pd.read_cav('cr/tuser/kisho/Downloads/employee.csv')

In [27]: df

Out[27]:

Slace Emp Name EmplO Employs Empastary

0 1 Venionee 5006 memotion 10,000

1 2 R Dip 5004 memotion 10,000

2 3 8 boys 5006 Memore 10,000

3 4 A Name 5012 Memore 10,000

4 5 6 Rhaven 5015 memore 10,000

In [28]: number-of-or-kern 5016 memore 10,000

In [29]: number-of-or-kern 5016 memore 10,000

In
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