Assignment - 3

```
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?**

7**4

0 0.8s

131

print("hello");

v 0.1s

print("Karthikeyan")

v 0.7s

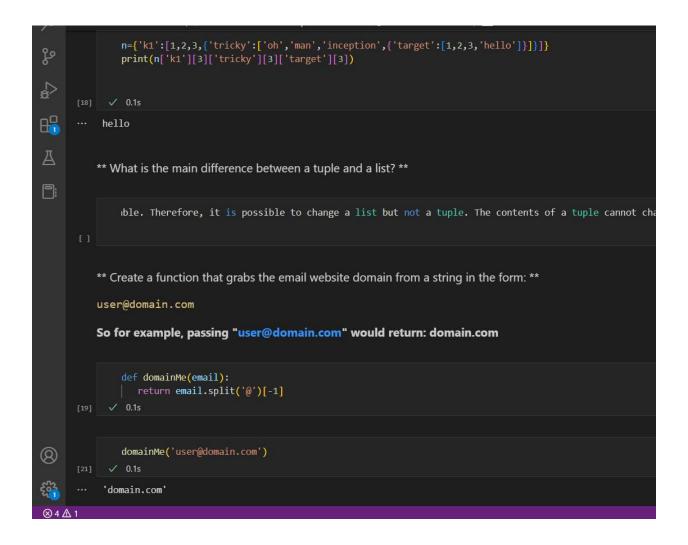
**Split this string:**

s = "Hi there Sam!"

**into a list. **

©4 Δ1
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```
p="Earth"
                d=12742
               print('The diameter of {} is {} kilometers.' .format(p,d))
₽
           The diameter of Earth is 12742 kilometers.
e#
           ** Given this nested list, use indexing to grab the word "hello" **
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
                lst =[1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
               p=lst[3][1][2]
               print(p)
       ··· ['hello']
           ** Given this nest dictionary grab the word "hello". Be prepared, this will be annoying/tricky **
                d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
(8)
               n={'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
print(n['k1'][3]['tricky'][3]['target'][3])
र्द्ध
⊗4 1 1
```



```
** Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cas
           capitalization. **
                def searchDog(s):
                 if 'dog' in s.lower():
  print("true")
print("false")
                    searchDog(s)
searchDog('Dog ia a pet animal!')
           true
           ** Create a function that counts the number of times the word "dog" occurs in a string. Again ignore edge cases. **
                string = 'The kept barking all night, The dogs run together! ';
                def countdogs(string):
                      count=0
                      for word in string.lower().split():
                            if word == 'dog' or word == 'dogs':
    count = count+1
                                  print(count)
(Q)
                countdogs(string)
⊗ 4 1 1
```



```
$
               caught speeding(90,False)
'Big Ticket'
caught_speeding(78,True)
           'Small Ticket'
          Create an employee list with basic salary values(at least 5 values for 5 employees) and using a f
               emp_names=["abc","def","ghi","jkl","mno","pqr"]
               emp salaries={}
               for employee in emp names:
                      while True:
                            try:
                                emp_salaries[employee]=int(input{employee}'s' salary )
                            except valueError:
(8)
                                print("invalid input")
               print("employee_salaries")
               total=sum(emp salaries.value())
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               print("total")
⊗ 4 🛦 1
```

