Assignment Date	9/10/2022
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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?**
pow(7,4)
2401
** Split this string: **s = "Hi there Sam! "*into a list.
s = "Hi there Sam!"
spt = s.split(", ")
print(spt)
['Hi there Sam!']
Show hidden output
** Given the variables:**
planet = "Earth"
diameter = 12742
** Use .format() to print the following string: **
The diameter of Earth is 12742 kilometers.
planet = "Earth"
diameter = 12742
print("The diameter of {planet} is {diameter} kilometers." .format(p
lanet="Earth" , diameter=12742))
The diameter of Earth is 12742 kilometers.
** Given this nested list, use indexing to grab the word "hello" **
Double-click
(or enter) to edit
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
print(lst[3][1][2][0])
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']}]}]
print(d["k1"][3]["tricky"][3]["target"][3])
hello
```

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** Create a function that grabs the email website domain from a
string in the form: **
def domainGet(email):
 return email.split('@')[-1]
domainGet('user@domain.com')
'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. **
** Create a function that counts the number of times the word "dog"
occurs in a string. Again ignore edge
cases. **
def animal(st):
 for word in st.lower().split():
 if word=='dog':
   return True
animal("dog is my favourite pet")
True
def animal(st):
 count=0
 for word in st.lower().split():
   if word=='dog':
    count+=1
 return count
animal("German Shepard dog is the strongest dog"
Problem
*You are driving a little too fast, and a police oficer stops you.
Write a function to return one of 3 possible
results: "No ticket", "Small ticket", or "Big Ticket". If your speed
is 60 or less, the result is "No Ticket". If
speed is between 61 and 80 inclusive, the result is "Small Ticket".
If speed is 81 or more, the result is "Big
Ticket". Unless it is your birthday (encoded as a boolean value in
the
parameters of the function) -- on your birthday, your speed can be 5
higher in all cases. *
def caught speeding(speed, is birthday):
 if is birthday:
```

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speeding = speed - 5
 else:
  speeding = speed
 if speeding > 80:
  return 'Big Ticket'
 elif speeding > 60:
  return 'Small Ticket'
 else:
   return 'No Ticket'
caught speeding(81, False)
'Big Ticket'
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.
Create two dictionaries in Python:
First one to contain fields as Empid, Empname, Basicpay
Second dictionary to contain fields as DeptName, DeptId.
Combine both dictionaries.
dict1={
 'Empid': 1001,
 'Empname': 'Ashok',
 'Basicpay': 20000
dict2={
 'DepName': 'Testing',
 'DeptID': 120
}
dict3 = dict1.copy()
dict3.update(dict2)
print(dict3)
{'Empid': 1001, 'Empname': 'Ashok', 'Basicpay': 20000, 'DepName':
'Testing', 'DeptID': 120}
** What is the main difference between a tuple and a list? **
       1) List is dynamic
       2) List can be modified
TUPLE: 1) Tuple is static
       2) Tuple cannot be modified
```