▼ Exercises

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

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```
** What is 7 to the power of 4?**
```

```
x=pow(7,4)
print(x)
```

2401

** Split this string:**

```
s = "Hi there Sam!"
```

*into a list. *

```
s="Hi there Sam!"
print(s.split())
```

```
['Hi', 'there', 'Sam!']
```

** Given the variables:**

```
planet = "Earth"
diameter = 12742
```

** Use .format() to print the following string: **

```
The diameter of Earth is 12742 kilometers.
```

```
txt= The diameter of {planet} is {diameter} kilometers.".format(planet="Earth", diameter=print(txt)
```

The diameter of Earth is 12742 kilometers.

** 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[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']}]}]}
d['k1'][3]['tricky'][3]['target'][3]
```

'hello'

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

```
Lists are mutable - Tuples are immutable
Lists consumes more memory - Tuples consumes less memory as compared to list
Lists have several built-in methods - Tuple does not have many built-in methods.
"""
```

'\nLists are mutable - Tuples are immutable\nLists consumes more memory - Tuples cor as compared to list\nLists have several built-in methods - Tuple does not have many to n'

** 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

```
def domainGet(input):
    return input.split('@')[1]
```

```
domainGet('user@domain.com')
```

```
NameError Traceback (most recent call last)
<ipython-input-6-39263155c84a> in <module>
----> 1 domainGet('user@domain.com')

NameError: name 'domainGet' is not defined

SEARCH STACK OVERFLOW
```

** 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

```
def findDog(inp):
    return 'dog' in inp.lower().split()
findDog('Is there a dog here?')
```

** Create a function that counts the number of times the word "dog" occurs in a string. Again ignore edge cases. **

```
def countDog(inp):
    dog = 0
    for x in inp.lower().split():
        if x == 'dog':
            dog += 1
    return dog
countDog('This dog runs faster than the other dog dude!')
```

2

True

▼ Problem

*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 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:
        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'

```
caught_speeding(81,True)

'Small 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.

```
Employee=[11000,12000,13000,14000,15000]
total=0
for i in Employee:
   total +=i
print(total)
```

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.

65000

Double-click (or enter) to edit

```
Dict1={'EmpId':201,'EmpName':'Mohana','Basicpay':12000}
Dict2={'DeptName':'Research','DeptId':3}
Dict3=Dict1.copy()
Dict3.update(Dict2)
print(Dict3)

{'EmpId': 201, 'EmpName': 'Mohana', 'Basicpay': 12000, 'DeptName': 'Research', 'Dept]
```

Colab paid products - Cancel contracts here

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