Assignment Date	5.10.2022
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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 pt - 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(planet-
Earth " diameter:

    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,
print(lst[3][1][2][0])          [' hello ']],23,11],1,7]
```

    Hello

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

d 'man inception ' , { 'target ': $[1,2,3,$ ' hello '] }] }] } print (d ["] [3] "tricky"] [3] "target"] [3])

    hello

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

LIST: 1) List is dynamic 2) List can be
         modified
TUPLE : 1) Tuple is static
         2) Tuple cannot be modified

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

```
def domainGet(emai1) :
  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. **

```
def animal (st) :
  for word in st. lower() . split() :
    if word=return True animal ("dog is my
favourite pet")
        True
```

Double-click (or enter) to edit

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

```
def animal (st) :
  count=e for word in st. lower() . split() : if word=='dog ' :
count+=l return count animal ("German Shepard dog is the
strongest dog")
        2
```

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:
    speeding = speed     5
  else: speeding speed if
  speeding > 80:
      return ' Big Ticket ' el if
  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.

```
dictl={
  ' Empid ' : 1001,
  ' Empname' : 'Ashok' , '
  Basicpay' 20000

dict2={
'DepName'        'Testing' ,
  'Dept1D' : 120


dict3 - dictl.copy()  dict3.
update        (dict      2)
print(dict3)
        { ' Empid' : 1001, ' Empname' : 'Ashok' ,        Basicpay'              20000, 'DepName ': 'Testing' , 'Dept1D' ::
```

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