Assignment -3

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Maximum Marks	2

Exercises

['hella']

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

```
1. What is 7 to the power of 42"
Je [3]: 900g
0/1331 2401
          1. Split this string:
            s = "Hi there Sam!"
         into a list.
In [1] Se'Hi there See!
]= [4] ( 5.split()
Out[4]: ['Hi', 'there', 'Sami']
           1. Given the variables:
            planet = "Earth" diameter = 12742
            Use format() to print the following string:
            The diameter of Earth is 12742 kilometers.
in [2] planety"Earth"
2> (7): dismeter=12742
print('The dismeter of () is () kilometers.' .format(planet, dismeter));
         The diameter of Earth is 12742 Miloseters.
           1. Given this nested list, use indexing to grab the word "hello"
3> (0): let = [1,2,[3,4],[5,[100,200,['tello']],25,11],1,7]
```

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

1. What is the main difference between a tuple and a list!!

```
36.1.36
```

Tuples are immutable whereas Lists are mutable. Tuples consumes less memory whereas Lists consume more memory. Tuples does not have many built-in methods whereas Lists have several built-in methods.

1. 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 domainSet(enail):
    print("Your domain is "emmail.split("@")[-1])
    enail-input("Please enter your esmil")
    domainSet(enail)
```

Please enter your email:reedharl%@mail.com Your domain is: gmail.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 finddog(st):
    if "dog" in st.lower():
        print("True")
    else:
        print("False")
    str"is there a dog here?"
    finddog(st)
```

[A [L5]: finddog("is there a dog Nere?")

True

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

```
def countdogs(value):
    cnt=0;
    for word in value.lower().split():
        if word = 'dog' or word nn 'dogs':
            cnt=0;
        print(ent)
    value-'thic dog rum factor than the other dogs'
    countdogs(value)
```

1

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.

```
In [20] def caught_speeding(speed, is_birthday):
                    if is_birthday;
speeding = speed - 5
                   else:
speeding = speed
                   if speeding > 88:
return 'Big Ticket'
wlif speeding > 60:
return 'Small Ticket'
else:
return 'No Ticket'
In [21] caught_speeding(98,Trum)
             'Big Ticket'
in [22] caught_speeding(61,False)
Sut[EF] 'Small Ticket'
                  1. 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.
   [15] employee = [15000,20000,25000,30000,60000]
                ium=0
for i in employee:
   ium==i
   print(i)
print(sum)
               15000
28000
25000
30000
40000
130000
                  1. Create two dictionaries in Python:
                First one to contain fields as Empid, Empirame, Basicpay
                Second dictionary to contain fields as DeptName, Deptid.
                Combine both dictionaries.
  dict_1=("Empid" "1", "Emphase"|"sree", "Basicpay", "18968"}
dict_2=("Dapthase" "Beveloper", "Daptha": "1861")
dict_3=(""dict_3, ""dict_2)
print(dict_3)
                ('Empid': '1', 'Empname': 'sree', 'Basicpay': '40880', 'DeptHame': 'Developer', 'DeptId': '1881'}
```