

Assignment - 3Python

Assignment Date	5 October 2022
Student Name	DHIVYA LAKSHMI S
Student Roll Number	212219220007
Maximum Marks	2 Marks

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
```

2401

**** Split this string: ****

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

****into a list.****

```
s="Hi
```

```
there
```

```
Sam"
```

```
s.split()
```

['Hi', 'there', 'Sam']

```
s="Hi
```

```
there
```

```
dad"
```

```
s.split()
```

['Hi', 'there', 'dad']

**** 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 {} is {} kilometers.".format(planet,diameter))
```

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 ? ****

#Mutability: One of the main difference between a tuple and a list is that List is mutable, whereas a Tuple is immutable.

**** 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(email):
```

```
return email.split('@')[-1] domainGet('user@domain.com')
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 findDog(st):
    return 'dog' in
    st.lower().split()
    findDog('Is there a dog
    here?')
```

True

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

```
def countDog(st):
    count = 0
    for word in
        st.lower().split():
        if
            word == 'dog':
                count += 1
    return count
```

```
countDog("This dog runs faster than the other dog dude!")
```

2

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 retrieve each employee salary and calculate total salary expenditure.

```
emp_list = ['yuva,100,200,300,400,500','ajay,200,300,400,500,100','akhil,300,400,500,100, 200,
'priya,400,500,100,200,300','deepa,500,100,200,300,400']
```

#retrieve values using for loop

```
for index in
    range(len(emp_list)):
    value=emp_list[index]
    print(index,value)
```

0 yuva,100,200,300,400,500

1 ajay,200,300,400,500,100

2 akhil,300,400,500,100,200

3 priya,400,500,100,200,300

4 deepa,500,100,200,300,400

#calculate total salary expenditure

```
a=[]
n=input
()for i in
    emp_list:
    c=i.split()
    if
    c[0]==
    n:
    a.append(c[1:6])
    c.sort(key=lambda
    x:x)del c[-1]
    c=list(map(int,c))
    print(n+'total salary expenditure'+str(sum))
```

total salary expenditure 7500

Create two dictionaries in

Python:

**First one to contain fields as Empid, Empname, Basicpay
Second dictionary to contain fields as Dept Name,
DeptId.Combine both dictionaries.**

```
emp_1={'empid':1,'empname':'priya','basicpay':500000}  
emp_2={'deptname':'HR','deptid':88}
```

```
#combine two dictionaries  
print(**emp_1,**emp_2)
```

```
{'empid': 1, 'empname': 'priya', 'basicpay': 500000, 'deptname': 'HR', 'deptid': 88}
```

[Colab paid products - Cancel
contracts
here](#)