





Assignment -3

Assignment Date	30 September 2022
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Maximum Marks	2 Marks

Question

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

656 lines (656 sloc) | 15.8 KB

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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?

In []:

```
pow(7,4)
```

Out[]:

```
2401
```

Split this string:

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

into a list.

In [2]:

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

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

In [4]:

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

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

Given the variables:



Given the variables:

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

Use .format() to print the following string:

The diameter of Earth is 12742 kilometers.

```
In [5]: planet = "Earth"  
        diameter = 12742  
        print ('The diameter of {one} is {two} kilometer.'.format (one=planet,two=diameter))  
  
The diameter of Earth is 12742 kilometer,
```

```
In [ ]:   
  
The diameter of Earth is 12742 kilometers.
```

Given this nested list, use indexing to grab the word "hello"

```
In [11]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
```

```
In [29]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]  
        lst[3][1][2][0]
```

```
Out[29]: 'hello'
```

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

```
In [ ]: d = {'k1':[1,2,3',{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
```

```
In [15]: d = {'k1':[1,2,3',{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}  
        d['k1'] [3] ['tricky'] [3] ['target'] [3]  
  
Out[15]: 'hello'
```

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

```
In [17]: c=print('tuple is immutable.','list is mutable')  
  
tuple is immutable. list is mutable
```

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

```
In [19]: def domainGet(email):  
        print(email.split('@')[-1])  
        domainGet('user@domain.com')
```

domain.com

```
In [ ]:   
  
Out[ ]: '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.



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```
In [20]: def findDog(st):  
         print(st.lower())  
         if 'dog' in st.lower():  
             print ('True')  
         else:  
             print("False")  
         findDog('Is there a dog here?')
```

```
In [31]: True
```

```
Out[31]: True
```

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

```
In [32]: def countDog(string):  
         count=0  
         for word in string.lower().split():  
             if word == 'dog':  
                 count = count+1  
             print(count)
```

```
In [33]: countDog("The dog runs faster than the other dog")
```

```
1  
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.

```
In [64]: 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'
```

```
In [65]: caught_speeding(85,False)
```

```
Out[65]: 'Big Ticket'
```

```
In [66]: caught_speeding(75,False)
```

```
Out[66]: '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.



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In []:

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.

In [60]:

```
dict1 = {'Empid':1002,'Empname':'kaviya','Basicpay':300000}
dict2 = {'deptname':'IT','deptId':210522}
dict1.update(dict2)
print(dict1)
```

```
{'Empid': 1024, 'Empname': 'parimala', 'Basicpay': 400000, 'deptname': 'IT', 'deptId': 210534}
```



