## **Assignment -3**

## Python Programming

Assignment Date	1 October 2022
Student Name	SRIRAM M
Student Roll Number	921319205137
Maximum Marks	2 Marks

## ▼ Exercises

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

\*\* What is 7 to the power of 4?\*\* 7\*\*4 2401 \*\* Split this string:\*\* s="Hithere bish! " + Code s="Hitheredad!" a=s.split() print(a) ['Hi', 'there', 'dad!'] \*\* Given the variables: \*\* \*\* pluset formation or print the following string: \*\* ThodiamotonofEanthic12742kilomotono a="Thediameterof{}is{}kilometers.".format("Earth",12742) print(a)

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? **
 #listismutable, whereasatupleisimmutable.
  ** Create a function that grabs the email website domain from a string in the form: **
   use Southriexample, passing "user@domain.com" would return: domain.com
 defdomainGet(email):
    returnemail.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'tworry
  about edge cases like a punctuation being attached to the word dog, but do account for capitalization. **
 deffDog(s):
```

```
return'dog'ins.lower().split()

fDog('Mypetanimalisdog')
```

True

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

```
defcDog(s):
    c=0
    forwordins.lower().split():i
    fword=='dog':
        c+=1
    returnc
```

```
cDog('Ilovedog,mypetanimalisdog,mydognameisgoldy')
```

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## 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, theresult 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. \*

```
defcaught_speeding(speed,is_birthday):
    ifis_birthday:
        speeding=speed-
5else:
        speeding=speed

if speeding >
        80:return'BigTicke
        t'
elif speeding >
        60:return'SmallTicke
        t'
```

```
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 forloop retreive each employee salary and calculate total salary expenditure.

```
1=[35000,40000,45000,30000,50000]
print("Employeesalary"
)foriinl:
 print(i
)total=0
foriinl:to
 tal+=i
print("Totalsalaryexpendiure")
print(total)
     Employee salary
    35000
    40000
    45000
    30000
    50000
    Total salary
    expendiure 200000
```

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.