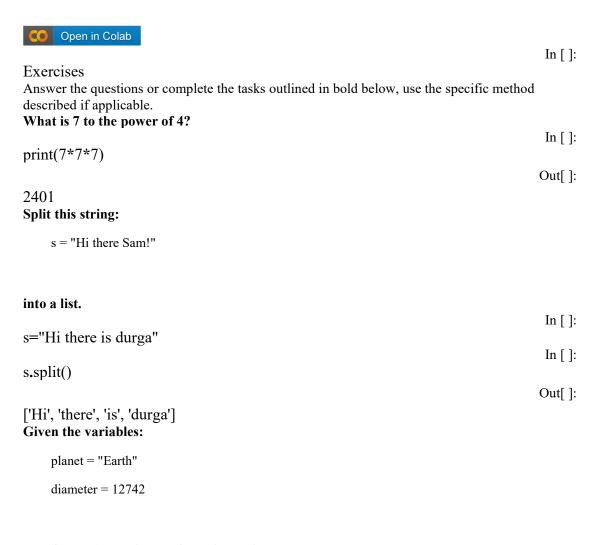
Assignment Date	14.10.2022
Student Name	Durga S
Student Roll Number	811519104028
Maximum Marks	2 Marks

## Solution:



## Use .format() to print the following string:

```
The diameter of Earth is 12742 kilometers. In []: planet = "Earth" diameter="The diameter of \{\} is 12742 kilometers" .format(planet) In []: print(diameter)

The diameter of Earth is 12742 kilometers

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

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

In []:
```

```
1st[3][1][2]
                                                                                       Out[]:
['hello']
Given this nest dictionary grab the word "hello". Be prepared, this will be annoying/tricky
                                                                                       In [ ]:
d = \{ k1': [1,2,3, \{ \text{tricky'}: [\text{oh','man','inception'}, \{ \text{target'}: [1,2,3,'\text{hello'}] \} ] \} \}
                                                                                       In [ ]:
d["k1"][3]["tricky"][3]["target"][3]
                                                                                       Out[]:
'hello'
What is the main difference between a tuple and a list?
                                                                                       In [ ]:
#The primary difference between tuples and lists is that tuples are immutable as
opposed to lists which are 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 []:
def domainGet(email):
  print("Your domain is: " + email.split('@')[-1])
email = input("Please enter your email: >")domainGet(email)
Please enter your email: >sumathi@gmail.com
Your domain is: gmail.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.
                                                                                       In [ ]:
def findDog(st):
  if 'dog' in st.lower():
     print("True")
  else:
     print("False")
                                                                                       In []:
st = "I take a walk with my dog"findDog(st)
Create a function that counts the number of times the word "dog" occurs in a string. Again
ignore edge cases.
                                                                                       In []:
value = "My moms's dogs won't eat dry dog food";
                                                                                       In [ ]:
def countdogs(value):
  count = 0
  for word in value.lower().split():
     if word == 'dog' or word == 'dogs':
```

```
count = count + 1
print(count)countdogs(value)
```

## **Problem**

1 2

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 [ ]:
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 []:
caught speeding(91,False)
                                                                                   Out[]:
'Big Ticket'
                                                                                    In [ ]:
speed="Your speed is more than 81"caught speeding(81, True)
                                                                                   Out[]:
'Small 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.
                                                                                    In [ ]:
employee names = ["Durga", "Chitra", "Mathi", "Nithish", "Janani",
"hari" employee salaries = {} for employee in employee names:
  while True: # Input validation loop
     try:
       employee salaries[employee] = int(input(f"Enter {employee}'s salary: "))
     except ValueError:
       print("Invalid input")
  print(employee salaries)
  total = sum(employee salaries.values())
  print(total)
Enter Durga's salary: 56,000
Invalid input
Enter Durga's salary: 50000
```

```
{'Durga': 50000}
50000
Enter Chitra's salary: 40000
{'Durga': 50000, 'Chitra': 40000}
90000
Enter Mathi's salary: 30000
{'Durga': 50000, 'Chitra': 40000, 'Mathi': 30000}
120000
Enter Nithish's salary: 4500
{'Durga': 50000, 'Chitra': 40000, 'Mathi': 30000, 'Nithish': 4500}
124500
Enter Janani's salary: 56000
{'Durga': 50000, 'Chitra': 40000, 'Mathi': 30000, 'Nithish': 4500, 'Janani': 56000}
180500
Enter hari's salary: 87000
{'Durga': 50000, 'Chitra': 40000, 'Mathi': 30000, 'Nithish': 4500, 'Janani': 56000, 'hari':
87000}
267500
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 [ ]:
e1={"Empid":1,
  "Empname":'Durga',
  "Basicpay":8000}e2={"DeptName":'CSE',
  "DeptId":69}
                                                                                   In []:
print({**e1, **e2})
{'Empid': 1, 'Empname': 'Nithin', 'Basicpay': 8000, 'DeptName': 'CSE', 'DeptId': 69}
```