| Project Name | Global Sales Data Analytics | | |
|--------------|-----------------------------|--|--|
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Assignment -3

Exercises

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

```
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 1
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 m
 e
 Saved successfully!
** Use .format() to print the following string: **
 The diameter of Earth is 12742 kilometers.
pla
net
```

```
"Ea
rth
dia
met
er
127
42
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']],23,1
1],1,7]lst[3][1][2][0]
'hel
lo'
** Given this nest dictionary grab the word "hello". Be prepared, this will be annoying/tricky
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
d['k1'][3]['tricky'][3]['targe
     t'][3]'hello'
** What is the main difference between a tuple and a list? **
#Tuple is immutable where list is mutable
** Create a function that grabs the email website domain from a string in the form: **
```

```
user@
domai
n.com
```

So for example, passing "user HYPERLINK "mailto:user@domain.com"

HYPERLINK "mailto:user@domain.com" would return: domain.com

```
def domainGet(email):
    return email.split('@')[-1]

domainGet('user
    @domain.co
    m')
    'domain.co
    m'
```

**SCreate a basid 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
findD
og(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
coun
tDog
(st)
 :
coun
t =
 0
    for word in
        st.lower().spl
        it():if word
        == 'dog':
            С
    ount
    += 1
    retur
    count
countDog('This dog runs faster than the
     other dog dude!')2
```

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, 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:
        speedin
    g = speed -
    5else:
```

```
speeding = speed
     if speeding > 80:
         return
     'Big
     Ticket'
     elif
     speeding >
     60:
         return
     'Small
     Ticket'else:
         return 'No Ticket'
  Saved successfully!
caught_speeding(81,False)
      'Big Ticket'
 caught_spee
      ding(7
      0,True
      )
      'Small
      Ticket
```

Create an employee list with basic salary values(at least 5 values for 5 employees) and using afor loop retreive each employee salary and calculate total salary expenditure.

```
employee = [30000,23000,25000,40000,33000]
tot = 0
for i
    i
    n
    e
    m
    p
```

```
1
    0
    У
    e
    e
    t
    0
    t
    t
    0
    t
print("Total Salary :",tot)
     Total Salary : 151000
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.
dict1 = {
    "EmpId":[1001,1002,1003,1004,1005],
    "EmpName":["vipush","hari","younush","nivish
    ", "kishore"],
    "Basicpay":[42000,41000,40000,43000,39000]
}
dict2 = {
    "DeptName":["EEE","CIVIL","CSE","IT","MBA","MECH"],
    "DeptId":["19CE","20CE","19CSE","19IT","19BIO","19MECH"]
}
dict1.u
pdate(d
ict2)
dict3 =
dict1.c
```

```
{'EmpId': [1001, 1002, 1003, 1004, 1005],
  'EmpName': ['vipush', 'hari', 'younush',
  'nivish', 'kishore'], 'Basicpay': [42000, 41000,
  40000, 43000, 39000],
  'DeptName': ['EEE', 'CIVIL', 'CSE', 'IT', 'MBA', 'MECH'],
  'DeptId': ['19CE', '20CE', '19CSE', '19IT', '19BIO', '19MECH']}
```

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