

DATA ANALYTICS-ASSIGNMENT 3-MAHASIVAPRIYA B

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*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. *

```
[19] 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'
```

```
[20] caught_speeding(81,False)  
  
'Big Ticket'
```

```
caught_speeding(81,True)  
  
'Small Ticket'
```

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** 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

```
[11] email="user@domain.com"
```

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

      '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. **

```
st="Is there a dog here?"
```

```
[15] def findDog(st):
      return 'dog' in st.lower().split()
      findDog(st)

      True
```

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

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

```
[9] d['k1'][3][{'tricky'}][3][{'target'}][3]

      'hello'
```

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

```
[10] l=[1,2,3]
      l[0]=10
      t=(1,2,3)
      t[0]=10
```

```
TypeError                                 Traceback (most recent call last)
<ipython-input-10-5ef6dbd3799> in <module>
      2 l[0]=10
      3 t=(1,2,3)
----> 4 t[0]=10

TypeError: 'tuple' object does not support item assignment
```

SEARCH STACK OVERFLOW

** Create a function that grabs the email website domain from a string in the form: **

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```
** Given the variables:**

planet = "Earth"
diameter = 12742

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

The diameter of Earth is 12742 kilometers.

[4] planet = "Earth"
diameter = 12742

[5] 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' **

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

[7] print(lst[3][1][2][0])
```

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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? **

[1] pow(7,4)

2401

** Split this string: **

s = "Hi there Sam!"

*into a list.*

[2] import numpy as np
s="Hi there sam!"
a=np.char.split(s,sep=" ")

[3] print(a)

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

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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.

[22] employee_salary=[10000,15000,25000,35000,45000]
t=0
for i in employee_salary:
t=t+i
print(t)

130000

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.

E1={'Empid':'001','Empname':'MAHA','Basicpay':20000}
E2={'DeptName':'CSE','DeptId':'CSE001'}
E1.update(E2)
E1

{'Empid': '001',
 'Empname': 'MAHA',
 'Basicpay': 20000,
 'DeptName': 'CSE',
 'DeptId': 'CSE001'}

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