

```

cell_type  metadata/id

markdown fwU2iooz85jt
markdown SzBQQ_ml85j:
code      UhvE4PBC85j:

markdown ds8G9S8j85j6
code      GD_TIs3H85j7
code      RRGOKoai85j:

markdown _bBNOu-785j9
code      2TrzmDcS85j-

code      s_dQ7_xc85j_
markdown QAKtN7Hh85k
code      -7dzQDyK85kI
code      6m5C0sTW85l
markdown 9Ma7M4a185k
code      vrYAxSYN85k

code      FIILSdm485kH
markdown FInV_FKB85kI
code      _VBWf00q85k.

markdown zP-j0HZj85kK
code      unvEAwjK85kL
code      Gb9dspLC85kI
markdown gYydb-y085kV
code      Q4ldLGV785kI
code      EqH6b7yv85kI
markdown AyHQFALC85l
code      6hdc169585kC
code      igzsvHb385kO

markdown 3n7jJt4k85kP

code      nvXMkvWk85k
code      BU_UZcyk85k:
code      p1AGJ7DM85l
markdown Tie4rC7_kAOC
code      R5-CdXSKjacI

markdown -L1aiFqRkF5s
code      8ugVoEe0kOsI

```

source/0

## Exercises

**\*\* What is 7 to the power of 4? \*\***

3

**\*\* Split this string: \*\***

.

3

**\*\* Given the variables: \*\***

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

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

kE

**\*\* 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']}]}]}

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

J

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

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L

**\*\* Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases**

VI

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

)

### Problem

def caught\_speeding(speed, is\_birthday):

S

<R

Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each em

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Create two dictionaries in Python:

k

izj8a-fa939

source/1

**\*\***You are driving a little too fast, and a police officer stops you. Write a function

izj8a-fa939

source/2

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

s = "Hi there Sam!"

planet = "Earth"

user@domain.com

to return one of 3 possible results: "No ticket", "Small ticket", or "Big Ticket".

if is\_birthday:

First one to contain fields as Empid, Empname, Basicpay

	izj8a-fa939	
execution_count	metadata/outputId	outputs/0/data/text/plain/0
	a05565aa-db43-4716-e87d-41c5c8a6f95e	2401
	cc52f0d8-2ed1-4b4d-e956-5bb332cdc2	['Hi', 'there', 'dad!']
	4235fdfb-5591-4dd9-f9d2-77f311977633	
	c3417d1c-3081-4e24-8489-154cdce1b06b	'hello'
	4232540d-95c2-461d-c78d-24ea62398e08	'hello'
	4216116b-da08-45a2-9545-d6b13bcefaeb	'domain.com'
	e7909af1-8df1-4534-fc8c-27b03d7369e5	True
	0602a2b5-0b18-48d8-e2d4-fe644cbccf8a	2
	699de8ef-a18c-436b-fdd9-60dc44979906	'Big Ticket'
	ca80629f-5949-4926-8d27-1b61576669ac	'Small Ticket'

outputs/0/execution\_count   outputs/0/output\_type

1 execute\_result

3 execute\_result

stream

14 execute\_result

16 execute\_result

26 execute\_result

28 execute\_result

31 execute\_result

6 execute\_result

5 execute\_result

izj8a-fa939

source/3

diameter = 12742

If your speed is 60 or less, the result is "No Ticket". If speed is between 61

speeding = speed - 5

izj8a-fa939

source/4

**\*\*into a list. \*\***

**\*\*So for example, passing "user@domain.com" would return: domain.com\*\***

and 80 inclusive, the result is "Small Ticket". If speed is 81 or more, the result is "Big Ticket". Unless it is your birthday  
else:

Second dictionary to contain fields as DeptName, DeptId.



izj8a-fa939

metadata/collapsed source/5

source/6

true

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

true

true

true

true

true

cases. **\*\***  
speeding = speed

true

Combine both dictionaries.

source/7

izj8a-fa939

outputs/0/name

The diameter of Earth is 12742 kilometers.

stdout

if speeding > 80:

izj8a-fa939

outputs/0/text/0

source/8

source/9

The diameter of Earth is 12742 kilometers.

return 'Big Ticket'

elif speeding > 60:

izj8a-fa939

source/10

source/11source/12

return 'Small Ticket'    else:    return 'No Ticket'