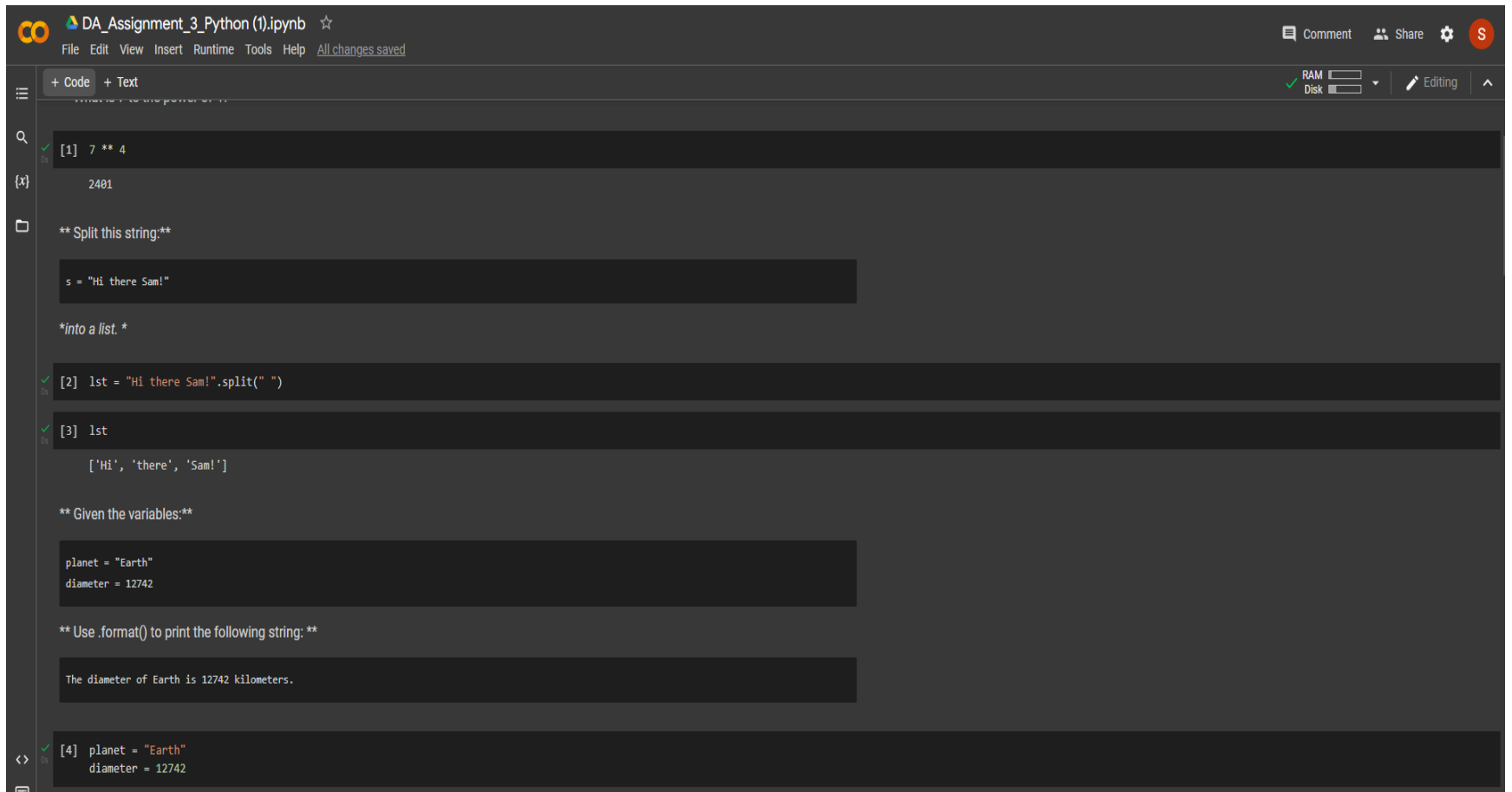


IBM ASSIGNMENT 3



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[1] 7 ** 4
2401

** Split this string:**

s = "Hi there Sam!"

*into a list.*

[2] lst = "Hi there Sam!".split(" ")

[3] lst

['Hi', 'there', 'Sam!']


** 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
```


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user@domain.com

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

[11] def extract(str):
 return str.split("@").pop()

[12] extract("user@domain.com")

 '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. ****

[13] def check(string):
 if string.find('dog') == -1:
 return False
 else:
 return True

[14] str = input()
 check(str)

 dog is good
 True

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

[15] def count(string):
 return len([i for i in range(len(string)) if string.startswith('dog', i)])

CO

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7x

[16] a=input()
count(a)

{x}

dog dog dog
3

▼ Problem

*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. *

2x

[17] 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'

2x

caught_speeding(85,False)

'Big Ticket'

2x

[19] caught_speeding(66,True)

'Small Ticket'

CO

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[18] caught_speeding(85,False)

'Big Ticket'

[19] caught_speeding(66,True)

'Small Ticket'

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.

[20] Employee=[11000,12000,13000,14000,15000]

total=0

for i in Employee:

total +=i

print(total)

65000

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.

[21] d1,d2 = {},{}

d1 = {'Empid':1000,'Empname':"Saranya",'Basicpay':20500}

d2 = {'DeptName':"Engine assembly",'DeptId':"DI1000"}

d1.update(d2)

d1

{'Empid': 1000,

'Empname': 'Saranya',

'Basicpay': 20500,

'DeptName': 'Engine assembly',

'DeptId': 'DI1000'}

