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

```
** What is 7 to the power of 4?**
7**4
     2401
** Split this string:**
 s = "Hi there Sam!"
*into a list. *
d = ['Hi', 'there', 'dad!' ]
print(d)
     ['Hi', 'there', 'dad!']
** Given the variables:**
 planet = "Earth" diameter
 = 12742
** Use .format() to print the following string: ** The
 diameter of Earth is 12742 kilometers.
planet = "Earth" diameter
= 12742
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" **
```

```
print("false")
st = "Is there is a dog here?" findDog(st)
     True
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. **
value = 'This dog runs faster than the other dog dude!';
def countdog(value):
  count=0
           for word in
                           if word ==
value.lower().split():
'dog' or word == 'dogs':
      count = count + 1
print(count)
countdog(value)
     1
     2
```

Problem

*You are driving a little too fast, and a police o cer 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. *

return 'Small Ticket'
else: return 'No
Ticket'
caught_speeding(81,False)
 'Big Ticket'
caught_speeding(81,True)

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.

#we should the data set

'Small Ticket'

Create two dictionaries in Python:

First one to contain elds as Empid, Empname, Basicpay Second dictionary to contain elds as DeptName, DeptId.

Combine both dictionaries.

#datasets required

Colab paid products - Cancel contracts here

2 0s completed at 11:31 PM