## **ASSIGNMENT-3**

# ANALYTICS FOR HOSPITAL'S HEALTH-CARE DATA

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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?**
print(7**4)
        2401

** Split this string:**

s = "Hi there Sam!"

*into a list. *

s = "Hi there Sam!"
s.split()
    ['Hi', 'there', 'Sam!']
```

## \*\* 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 kilometers.

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

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

```
d="user@domain.com"
def fun(d):
    a=""
    res= False
    for i in d:
        if(res):
          a+=i
        if(i=="@"):
        res = True
    return a

print(fun(d))
    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. \*\*

```
def res(sentence,word):
    s=sentence.split("")
    for i in s:
        if(i==word):
        return True
```

```
return False
s="my Dog name is BLACKY"
word = "Dog"
if(res(s,word)):
   print("True")
else:
   print("false")
```

True

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

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#### 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. \*

```
def caught_speeding(speed, is_birthday):
    if is_birthday:
        speeding = speed - 5
    else:
        speeding = speed

    if speeding > 80:

        return 'Bignliftet'
elif:speeding > 60:
        return 'No Ticket'

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'
print(caught speeding(1819,True))
     Big Ticket
Big Ticket
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'
print(caught_speeding(79,False))
     Small Ticket
```

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.

```
employee = ["jhonny", "jhon", "ram", "raj", "pavithra"]
salary={}
for emp in employee:
   amount=int(input(f'enter the salary'))
   salary[emp]=amount
   print(f"Total salary: Rs.{pay:.2f} ")
   Total gross pay: Rs.5500.00
```

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.

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