DATA ANALYST

ASSIGNMENT-3

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Question-1:



Question-2:



Question-3:



Question-4:

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

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

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

[hello']
```

Question-5:



Question-6:

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

[8] #tuple are immutable byut list are mutable #tuples are denoted in () and list are denoted as []
```

Question-7:

```
** 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

[10] def domainGet(email):
    print("Your domain is: " + email.split('@')[-1])
    email = input("Please enter your email: >")

Please enter your email: >user@domain.com

[ ] domainGet('user@domain.com')

Your domain is: domain.com
```

Question-8:

```
** 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. **

[11] def findDog(st):
    if 'dog' in st.lower():
        print("True")
    else:
        print("False")

st = "Is there a dog here?"
findDog(st)

True

[12] findDog('Is there a dog here?')

True
```

Question-9:

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

[13] value = 'This dog runs faster than the other dog dude!';

def countdogs(value):
    count = 0
    for word in value.lower().split():
        if word == 'dog' or word == 'dogs':
            count + 1
            print(count)

    countdogs(value)

1
2
```

Question-10:

```
* 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
    if speeding > 80:
        return 'Big Ticket'
elif speeding > 60:
        return 'Small Ticket'
elif speeding > 60:
        return 'Small Ticket'
else:
    return 'No Ticket'
```

Question-11:

```
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=[400,500,550,600,250]
sum=0
print ("salaryof 1st person is",employee[0])
print ("salaryof 3rd person is",employee[1])
print ("salaryof 3rd person is",employee[3])
print ("salaryof 4th person is",employee[3])
print ("salaryof 5th person is",employee[4])
for x in employee:
    sum=sum+x
    print("The total salary is", sum)

salaryof 1st person is 500
salaryof 3rd person is 500
salaryof 4th person is 500
salaryof 4th person is 500
salaryof 5th person is 250
The total salary is 2300
```

Question-12:

```
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.

d1=('Empid':1, 'Empname': "abc", 'basicpay':19090)

d2=('Deptname': 'cse', 'Deptid':2)

print((**d1, **d2))

{'Empid': 1, 'Empname': 'abc', 'basicpay': 19090, 'Deptname': 'cse', 'Deptid': 2}
```