ASSIGNMENT-3 EXERCISE-PYTHON

Assignment Date	30 September 2022
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Student Roll Number	960519104044
Maximum Marks	2 Marks

Question:

Exercises:

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

Solutions:

Exercises

 $Answer the questions or complete the tasks outlined in bola below, use the sDecific method \;\; described \;\; if a oplicable.$

What is 7 tolhe power of 4?

Split this string:

```
s = "Hi there San!"

a=list(s. split(" ")
split ds
['hi', 'there', 'Sac!'

Given the variables:
    planet = "Earth"

Use .formatg to print the following dring:
    Inc 5i areI 8P 0f EdPth iS 12742 tilofiett rs.

diaeeter=127^2

print("The diameter of {} is {} kilometers".format(planet,diameter))
```

'he dzameter oT Earth is 17742 Li I olreter s

```
Given this nested list, use indexing to grab the word "hello"
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
['hello']
Given this nest dictionary grab the word "hello". Be prepared, this will be annoying/tricky
d = {'k1':[1.2.3.{'tricky':['oh'.'man'.'incection'.{'target':[1.2.3.'hello']}]}}}
print(d['k1'][3]['tricky'][3]['target'][3])
hello
What is the main difference between a tuple and a list?
"the main difference between tuple and list is that the tuple is immutable where as list is mutable"
'the main difference between tuple and list is that the tuple is immutable where as list is mutable'
 reatea function that grail the email website domain from a string in the form:
Sofo ezamde, iieg\oe%Jomi com"woWJtetvm:domaa om
  if i=='@';
    l=a.index(i)+l
 print(a[1::])
```

reate a basic function flat returns True if the word 'dog' is contained in the input string. Don't \rony about edge cases like a ounctuttion being attached to the

word dog, a#t do zccovnt for czyitalizaticn.

def check(str1):
 str1.lower()
 if "dog" in str1:

```
print(check("The phrase contains dog"))
print(check("The phrase contains cat"))
True
False
```

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

```
def counter(str1):
    returo a

print(counter("dog dog dog"))
print(counter("dog licks the bone and the dog loves to play with it"))
```

Problem

You are driving a lithe too fast, and a police officer slops you. Write a function to return one of 7 possible results: "No ticket", "Siriall ticket", or "Big TicketTM. If speed is 60 or less, the result is "No TicketTM. If speed is beMeen 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.

'Small Ticket'

```
";ç 'Small Tickei'
```

Create an employee list with basic salary values(at least 5 values for 5 employees) and iJsing a for loop retfeive each employee salary and calculate total salary expenditure.

('Empíd': 1, 'Empname': 'keerthika', 'Basïcpay': 50000, 'ÓèptName': 'cse', 'Óeptíd': 104}