ASSIGNMENT-3
EXERCISE-PYTHON

Assignment Date	30 September 2022
Student Name	Narayanamoorthi N
Student Roll Number	960519104048
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 aopli‹abIe.

What is 7 tolhe power of4?

Split this string:

s = "Hi there San!"

into a list.

```
a=Iist(s. split(" ")
§PIIt d$
```

['hi', 'there', 'Sac!']

Given the variables:

```
planet = "Earth"
```

Use .formatg to print the following dring:

Inc 5i arel 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 olreters

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','inception',{'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)+1
print(a[l::])
```

reate a basi‹ fvn‹tion flat returns True if the word 'dog' is contained in the input string. Don't \rorry about edge cases like a oun‹tuttion being attached to the word dog, a#t do zc‹ovnt for ‹zyitalizati‹n.

```
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):
  ret uro  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 Ticket™. If your speed is 60 or less, the result is "No Ti‹ket™. If speed is beMeen 61 and 80 inclusive, the resull 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  :s_h i -I may :

    else:
        speeding = speed

    if   s pe edin5  ›  c W :
        return ' 3 ig ' '•„.°'.'
    clit  s peed irig  ›  -v :

    else:
        return 'No Ticket'
```

```
caught speeding(90,1)
```

```
'Big Ticket'
```

```
'Small Ticket'
```

„ ;ç 'Small Tickeí'

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

In [21]:
```
salary=[1000,1500,1800,1200,1100]
sum=0
   sum=sum+i
prin(("the tótai ralary is",sum)
```

```
the total salary is 66BB
```

Create fwo dictïonaries in Python:

First one to contain fieïds as Empid› Empname, 8asicpay

Secsnd dictionary to contain'fieids as DeptName, Deptid.

Combine both dictionariès.

```
.emp=('Emp5d":1,'Engname':"kèertfiika',"Basicpay":.50BJ0}
 óepté('DeptNawe':"cse',"Oeotid":1BN}
```

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