Assignment -1

Python Programming

Assignment Date	18 OCTOBER 2022
Student Name	SRIDHARAN S
Student Roll Number	19IT053
Maximum Marks	2 Marks

Question-1:

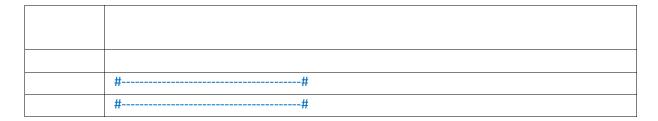
Split this string

Solution:					
	s = "Hi there Sam!"				
	<pre>print(s.split())</pre>				
	##				
	##				
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	CEF Assignment 1 (uneaved changes)		PART TELESTICA	Python	
***	Basic Python 1. Split this string (**) * *******************************				
	2. Use .format() to print the following Output should be: The diameter of Earth is 1	2742 kilometers.			
MACH.	[0]: tet-"The diameter of (plt) is (dr) bilometres.".f	ormat(plt-planet, dr-diameter)	FRE	70° 10° 10°	1H-10-H0HH

Question-2:

Use .format() to print the following string.
Output should be: The diameter of Earth is 12742 kilometers.

Solution:	
	planet = "Earth"
	diameter = 12742
	txt="The diameter of {plt} is {dr}
	<pre>txt="The diameter of {plt} is {dr} kilometres.".format(plt=planet, dr=diameter)</pre>
	print(txt)



```
1. Split this string

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2. Use format() to print the following string.

Output should be: The diameter of Earth is 12722 kilometers.

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Output should be: The diameter of Earth is 12722 kilometers.

1. Split this string

3. In this nest dictionary grab the word "hello"

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```

Question 3:

In this nest dictionary grab the word "hello" Solution:

```
d =
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
```

Question 4.1:

Create an array of 10 zeros? Solution:

import numpy as np
array=np.zeros(10)
print(array)

Question4.2:

Create an array of 10 fives?

Solution:

import numpy as np

array=np.ones(10)*5print(array)



Question 5:

Create an array of all the even integers from 20 to 35 Solution:

array=np. arange (20, 35, 2) print (array)



Question 6:

Create a 3x3 matrix with values ranging from 0 to 8 Solution:

arr=np.arange(0,9).reshape(3,3)
print(arr)



Question 7:

Concatinate a and b

a = np.array([1, 2, 3]), b = np.array([4, 5, 6]) Solution:

```
a=np. array([1, 2, 3])
b=np. array([4, 5, 6])
np. concatenate([a, b])
```



Question 8:

Create a dataframe with 3 rows and 2 columns Solution:

```
import pandas as pd
data=pd.DataFrame(index=np.arange(3), columns=np.arange(2))
print(data)
```



Question 9:

Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023 Solution:

```
data=pd. date_range(start="1/1/2023", end="10/2/2023") print(data)
```

```
| Note Name | Section Section | Note | Note
```

Question 10:

Create 2D list to DataFrame lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

Solution:

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
data=pd.DataFrame(lists, columns=["s.no", "pattern", "number"])print(data)

