Assignment-1

Assignment Date	08 October 2022	
Student Name	Amuthan M	
Student Roll Number	811519104008	
Maximum Marks	2 Marks	

Basic Python Amuthan M 1. Split this string In []: s="Hi there sam" s=s=.split() print(s) ['Hi', 'there', 'sam'] italfcized text ## 2. Use format() to print the following string. Output should be: The diameter of Earth is 12742 kilometers. In []: planet = "Earth" diameter = 12742 In []: planet="Earth" diameter = 12742 In []: planet="Garth" diameter = 12742 In []: planet = "Garth" diameter = 12742

```
In []: d = ('k1':[1,2,3,('tricky':['oh', 'nan', 'inception', ('target':[1,2,3, 'hello'])]])

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

hello

Numpy

In []: import numpy as np

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

In []: import numpy as np

arr = np.array([0,0,0,0,0,0,0,0,0])

print(arr)

print(type(arr))

[e e e e e e e e e e]

cclass 'numpy.ndarray'>

In []: saport numpy as np

arr = np.array([5,5,5,5,5,5,5,5])

print(type(arr))

[s 5 5 5 5 5 5 5 5 5 5]

cclass 'numpy.ndarray'>

[s 5 5 5 5 5 5 5 5 5]

cclass 'numpy.ndarray'>
```

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5. Create an array of all the even integers from 20 to 35

In []:
import numpy as np
array = np.arange(28,95,2)
print("array of all the even integers from 20 to 35")

print(array)

array of all the even integers from 20 to 35

[20 22 24 26 28 30 32 34]

6. Create a 3x3 matrix with values ranging from 0 to 8

In []:
import numpy as np
x=np.arange(0,0).reshape(3,3)
print(x)

[[0 1 2]
[3 4 5]
[6 7 8]]

7. Concatinate a and b

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

In []:
import numpy as np
a=np.array([1, 2, 3]), b=np.array([4, 5, 6])

np.concatenate((a,b), axis=Nene)
```

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10. Create 2D list to DataFrame

[sts = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

In []: lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

In []: import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

drint(type(lists))

drein(lists)

drein(lists)

drein(lists)

drein(lists)

drein(lists)

cclass 'list')

cclass 'pandas.core.frame.DataFrame')

0 [1, aaa, 22]
1 [2, bbb, 25]
2 [3, ccc, 24]
```