Assignment -1

Assignment Date	21 October 2022
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Student Roll Number	210519205060
Maximum Marks	2 Marks

Basic Python

1. Split this string

""" s = "Hi there

Sam!"

s="Hi there Sam!"

s=s.split() print(s);

"""*`italicized text`*## 2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

"""

planet = "Earth" diameter

= 12742

planet = "Earth" diameter = 12742 planet = "Earth" diameter =

12742 print('The diameter of {} is {} kilometer.'

.format(planet,diameter)); """## 3. In this nest dictionary grab the

word "hello"

"""

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

```
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
a=lst[3][1][2]; print(a)

"""# Numpy"""

import numpy as np

"""## 4.1 Create an array of 10 zeros?
## 4.2 Create an array of 10 fives?
"""

import numpy as np
array=np.zeros(10) print("An
array of 10 zeros:")
print(array)
array=np.ones(10)*5 print("An
array of 10 fives:") print(array)

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

import numpy as np array=np.arange(20,36,2)
print("Array of all the even integers from 20 to 35")
print(array)

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

```
import numpy as np
x =  np.arange(0, 9).reshape(3,3) print(x)

"""## 7. Concatinate a and b
## a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
"""

import numpy as np

a           = np.array([1, 2, 3])
print(a)

b           = np.array([4, 5, 6])
print(b)

print('\n---Result of a and b---') print(np.concatenate((a,
b)))

"""# Pandas

## 8. Create a dataframe with 3 rows and 2 columns
"""

import pandas as pd

import pandas as pd


import numpy as np
```

```
a=np.array([1,2,3]) b=np.array([4,5,6])
np.concatenate((a,b),axis=0)

"""## 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023"""

import pandas as pd pd.date_range(start='01/01/2023',end='02/10/2023')

"""## 10. Create 2D list to DataFrame

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

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

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[2, 'bbb', 25],
        [3, 'ccc', 24]]

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

import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists)
```