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| Assignment Date | 16 September 2022 |
| Student Name | MUKESH R |
| Student Roll Number | 113219041070 |
| Maximum Marks | 2 Marks |

**Question-1:**

**Split this string**

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| **Solution:** |
| s = "Hi there Sam!"  a=s.split()  print (a) |



**Question-2:**

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

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

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| **Solution:** |
| planet **=** "Earth" diameter **=** 12742  print("The diameter of {} is {} kilometers."**.**format(planet,diameter)) |



**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']}]}]}

a=d['k1'][3]['tricky'][3]['target'][3]

print(a)



**Question-4:**

**NUMPY**

**4.1**- **Create an array of 10 zeros?**

**Solution:**

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



**4.2 Create an array of 10 fives?**

**Solution:**

import numpy as np a=np.ones(10)\*5 print(a)



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

**Solution:**

import numpy as np a=np.arange(20,35,2) print(a)



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

**Solution:**

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



* **Concatenate a and b**

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

**Solution:**

import numpy as np a = np.array([1, 2, 3])

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



**Pandas**

* **Create a dataframe with 3 rows and 2 columns**

**Solution:**

import pandas as pd

a = {'col': [6,7,9],'col\_1': [2,3,0]}

df=pd.DataFrame(a) print(df)

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

**Solution:**

import pandas as pd

date=pd.date\_range(start='01-01-2023',end='10- 02-2023')

print(date)



* **Create 2D list to DataFrame**

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

**Solution:**

import pandas as pd

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

print(df)

