**Assignment -1**

Python Programming

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| Assignment Date | 10 September 2022 |
| Student Name | P Manjusri |
| Student Roll Number | 113219071017 |
| Maximum Marks | 2 Marks |

**Question-1:**

**Split this string**

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| **Solution:** |
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| s **=** "Hi there Sam!"  x **=** s**.**split()  print(x) |  |
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**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{planet} is {diameter} kilometers.'**.**format(planet**=**"earth",diameter**=**12742)) |
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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']}]}]}  x**=**d['k1'][3]['tricky'][3]['target'][3]  print(x)    **Question-4:** 4.1 Create an array of 10 zeros?Solution: **import** numpy **as** np  y**=**np**.**zeros(10)  print(y) 4.2 Create an array of 10 fives?Solution: **import** numpy **as** np  y**=**np**.**ones(10)**\***5  print(y)  **Question-5:** Create an array of all the even integers from 20 to 35Solution: **import** numpy **as** np  x**=**np**.**arange(20,36,2)  print(x)    **Question-6:**  Create a 3x3 matrix with values ranging from 0 to 8Solution: **import** numpy **as** np  x**=**np**.**arange(0,9)**.**reshape(3,3)  print(x)    **Question-7:** Concatenate a and ba = 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)    **Question-8:**  Create a dataframe with 3 rows and 2 columnsSolution:import pandas as pdd={'a':[1,4,6],'b':[3,5,7]}x=pd.DataFrame(d)print(x) **Question-9:** Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023Solution: **import** pandas **as** pd  x**=**pd**.**date\_range(start**=**'1-1-2023',end**=**'2-10-2023')  **for** val **in** x:  print(val)  **Question-10:** 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]]  x**=**pd**.**DataFrame(lists)  print(x) |
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