**ASSESMENT 1**

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| --- | --- |
| ASSESMENT DATE | 16-09-2022 |
| STUDENT NAME | Jeevalakshman.B |
| STUDENT ROLL NUMBER | 713119205003 |
| MAXIMUM MARKS | 2 Marks |

1. Split this string

S = "Hi there Sam!"

a=s.split()

print(a)

**OUTPUT**

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

planet = "Earth"

diameter = 12742

print('The diameter of {} is {} kilometer.' .format(planet,diameter));

**OUTPUT**

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

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

print (d['k1'][3]["tricky"][3]['target'][3])

**OUTPUT**

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## 4.1 Create an array of 10 zeros?

## 4.2 Create an array of 10 fives?

array = np.zeros(10)

print("An array of 10 zeros: ")

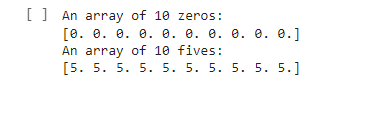
print(array)

array = np.ones(10)\*5

print ("An array of 10 fives:")

print(array)

**OUTPUT**



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

import numpy as np

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

print("Array of of even integers from 20 to 35")

print(array)

**OUTPUT**

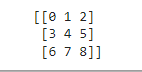
## jayadharaniassesment1 - Colaboratory - Google Chrome 25-09-2022 22_17_34 (2).png

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

a=np.arange(0,9).reshape(3,3)

print(a)

**OUTPUT**



7. Concatinate a and b

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

a = np.array([1,2,3])

b = np.array([4,5,6])

c=a+b

print(c)

**OUTPUT**

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

import pandas as pd

data={'name':['john','jai','rose'],'age':[20,22,45]}

df=pd.DataFrame(data)

print(df)

**OUTPUT**

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

import datetime

start\_date=datetime.date(2023, 1, 1)

end\_date = datetime.date(2023 ,2 ,10)

delta=datetime.timedelta(days=1 )

while(start\_date<=end\_date):

  print(start\_date,end="\n")

  start\_date += delta

**OUTPUT**

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## 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]]

print (lists)

**OUTPUT**

## jayadharaniassesment1 - Colaboratory - Google Chrome 25-09-2022 22_30_16 (2).png