1. Split this string

In [1]:

s = "Hi there parkavi!"

In [2]:

s='Hi there parkavi!'

s**.**split()

Out[2]:

['Hi', 'there', parkavi!']

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

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

In [3]:

planet = "Earth"

diameter = 12742

In [4]:

print('The diameter of {} is {} kilometers.'**.**format(planet,diameter))

The diameter of Earth is 12742 kilometers.

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

In [5]:

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

In [6]:

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

Out[6]:

'hello'

Numpy

In [25]:

import numpy **as** np

array=np**.**arange(30,71,2)

print("Array of all the even integers from 30 to 70")

print(array)

Array of all the even integers from 30 to 70

[30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70]

4.1 Create an array of 10 zeros?

4.2 create an array of 10 fives?

In [12]:

np.zeros(10)

Out[12]:

array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])

In [13]:

np.ones(10) * 5

Out[13]:

array([5., 5., 5., 5., 5., 5., 5., 5., 5., 5.])

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

In [14]:

print(np.arange(20,35,2))

[20 22 24 26 28 30 32 34]

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

In [15]:

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

Out[15]:

array([[0, 1, 2],

        [3, 4, 5],

        [6, 7, 8]])

7. Concatenate a and b

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

In [16]:

print('\n---results of a([1,2,3]) and b([4,5,6])---')

---results of a([1,2,3]) and b([4,5,6])---

Pandas

8. Create a dataframe with 3 rows and 2 columns

In [17]:

import pandas **as** pd

In [20]:

import pandas **as** pd

record = {"name":["Laila","Halan"],"marks":["28","25"],"status":["pass","pass"]}

df = pd**.**DataFrame(record)

df

Out[20]:

	name	marks	status
0	Latha	28	pass
1	parkavi	25	pass

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

In [1]:

d= (1."Jan", 2023, 10,"Feb", 2023)

  Input In [1]

   d= (1."Jan", 2023, 10,"Feb", 2023)

    ^

Syntax Error: invalid syntax

10. Create 2D list to Data Frame

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

In [21]:

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

In [22]:

lists = {"s.no": [1, 2, 3], "name": ['aaa','bbb','ccc'], "value": [22, 25, 24]}

In [23]:

pd**.**DataFrame (lists)

Output [23]:

	s.no	name	value
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24

In [26]:

pd**.**DataFrame(lists,index=["A","B","c"])

Out[26]:

	s.no	name	value
A	1	aaa	22
B	2	bbb	25
c	3	ccc	24

In [ ]: