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Text

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1. Split this string

Code Text

s="Hi there Sam!"
s.split()

['Hi', 'there', 'Sam!']

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

Code Text

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

The diameter of Earth is 12742 kilometers

Code Text

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

Code Text

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

Code Text

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

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Numpy

Code Text

import numpy as np

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4.1 Create an array of 10 zeros?

Code Text

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4.2 Create an array of 10 fives?

Code Text

a=np.zeros(10)

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

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

Code Text

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

array([20, 22, 24, 26, 28, 30, 32, 34])

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

Code Text

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

array([[0, 1, 2],
 [3, 4, 5],
 [6, 7, 8]])

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7. Concatenate a and b

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

Code Text

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

array([1, 2, 3, 4, 5, 6])

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Pandas

Code Text

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8. Create a dataframe with 3 rows and 2 columns

Code Text

import pandas as pd

d={"name":["Krishnapriya", "Sukash", "Aathvik"], "age": [19, 14, 21]}
df=pd.DataFrame(d)
df

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

Code Text

pd = pd.date_range(start='1-1-2023',end='10-2-2023')
for val in p:
 print(val)

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10. Create 2D list to DataFrame

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

Code Text

df = pd.DataFrame(lists)
df

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