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"""
# (1) Split this string
s = "Hi there Sam!"
x = s.split()
print(x)

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# (2) Use .format() to print the following string.
# Output should be: The diameter of Earth is 12742 kilometers.
# [].
planet = "{frame}Earth is".format(frame = "The diameter of ")
diameter = "12742{frame}".format(frame = (" kilometers"))
print(planet,diameter)

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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])
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#(4) Numpy
import numpy as np
## Create an array of 10 zeros?
import numpy as np
array=np.zeros(10)
print("An array of zero:")
print(array)
# (5) Create an array of 10 fives?
import numpy as np
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)
"""
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#(6) Create an array of all the even integers from 20 to 35
import numpy as np
array=np.arange(20,35,2)
print(array)
"""
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# (7) Create a 3x3 matrix with values ranging from 0 to 8
import numpy as np
x = np.arange(0,9).reshape(3,3)
print(x)
"""
"""
## 7. Concatenate a and b
## a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

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

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

"""
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## Create a dataframe with 3 rows and 2 columns
import pandas as pd
data = [['vivek',20],['aadhidevan',21],['kavya',23]]
sabitha = pd.DataFrame(data,columns=['name','age'])
print(sabitha)
"""
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