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1. Split this string
s = "Hi there Sam!"
s = "Hi there Sam!"
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2. Use .format() to print the following string
planet = "Earth"
diameter = 12742
print( 'The diameter of {} is {} kilometers.' .format(planet,diameter));
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])
4.1 Create an array of 10 zeros?
import numpy as np
array=np.zeros(10)
print("An array of 10 zeros:")
print(array)
4.2 Create an array of 10 fives?
import numpy as np
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)
5. Create an array of all the even integers from 20 to 35
import numpy as np
array=np.arange(20,36,2)
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print("Array of all the even integers from 30 to 70")
print(array)
6. 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,-71])
a = np.array((1,2,3))
b = np.array((4,5,6))
np.stack((a,b),axis=1)
8. Create a dataframe with 3 rows and 2 columns
import pandas as pd
data = [['prasanth', 10], ['Prasath', 11], ['prinitha', 14]]
df = pd.DataFrame(data, columns=['Name', 'Register no'])
df
9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
import datetime
# The size of each step in days
day_delta = datetime.timedelta(days=1)
start_date = datetime.date.today()
end_date = start_date + 41*day_delta
for i in range((end_date - start_date).days):
  print(start_date + i*day_delta)
10. Create 2D list to DataFrame lists-11, and 1, 'aaa', 221, 22, bbb, 25, 3, ccc, 243
import pandas as pd
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lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

Is = pd.DataFrame(data, columns=['Tag', 'Number'])

df
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