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Notebook
# 1) split the string:
s= "Hi there san!"
print(s.split())
['Hi', 'there', 'san!']
#use .format()to print the following string
planet = "Earth"
diameter= 12742
print("The diameter of {planet} is {diameter} kilometeres".format(planet = "Earth",diameter= 1274))
The diameter of Earth is 1274 kilometeres
#numpy
# 4.1) create an array of 10 zeros:
import numpy as np
array=np.zeros(10)
print(array)
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
#3
d= {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
print(d['k1'][3]['tricky'][3]['target'][3])
hello
#4.2) create an array of 10 fives
import numpy as np
array=np.ones(10)*5
print(array)
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
#5)Array of all even integers from 20 to 35
import numpy as np
array=np.arange(20,35,2)
print(array)
[20 22 24 26 28 30 32 34]
#6) create a 3×3 matrix values range from 0 to 8
import numpy as np
b=np.arange(0,9).reshape(3,3)
print(b)
[[0 1 2] [3 4 5] [6 7 8]]
# 7)concatinate a and b
a= np.array([1,2,3])
b= np.array([4,5,6])
c= np.concatenate((a,b),axis= None)
print(c)
[1 2 3 4 5 6]
# pandas:
#8) create a data frame using 3rows and 3columns:
import pandas as pd
data=[1,2],[4,5],[7,8]
df=pd.DataFrame(data, columns=['a','b'])
df
#9 Generate the seeies of dates from 1st jan,2023 to 10 feb,2023:
import pandas as pd
df = pd.date_range(start='1/1/2023',end='10/2/2023')
df
                                                                                                                '2023-01-05', '
DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03', '2023-01-04',
#10) create 2D list to data frame
import pandas as pd
list = [[1, 'aaa',22],[2,'bbb',25],[3,'ccc',24]]
df = pd.DataFrame(list,columns =("no","string","int"))
```