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#1)-accept two list of 5 elements and converts them into numpy arrays.
#concatenate these arrays and print it .also sort thse arrays and print it.
import numpy as np
print(' two list of numpy array elements is')
list1 = [2,4]
list2 = [2,3,4]
array_sort =[list1+list2]
print(array_sort)
      two list of numpy array elements is
     [[2, 4, 2, 3, 4]]
#2)-how to get unique items and count of unique items
a_{list} = [1,1,3,6,7,7,8,9,9,0]
a_set = set(a_list)
count of unique items = len(a set)
list_unique_items = set(a_set)
print('count of unique items is')
print(count_of_unique_items)
print('list of unique items')
print(list unique items)
    count of unique items is
Гэ
     list of unique items
     \{0, 1, 3, 6, 7, 8, 9\}
#3)consider two square numpy array stack them vertically and horizontally
#hint: use vstack(), vhstack()
import numpy as np
a = np.array([[1,2],
              [3,4]])
b = np.array([[5,6],
              [7,8]])
print(" vertical stacking:\n",np.vstack((a,b)))
print(" \n horizontal stacking:\n",np.hstack((a,b)))
      vertical stacking:
      [[1 2]
      [3 4]
      [5 6]
      [7 8]]
      horizontal stacking:
      [[1 2 5 6]
      [3 4 7 8]]
#4)-how to convert a 1d array into a 2d array .demonstrate
# with the help of a code snippet
import numpy as np
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arr = np.array([1,2,4,7,6,9,0,4])
print('1d arr is ')
print(arr)
print("\n now converting 1d array to 2d array is\n")
arr_2d = np.reshape(arr, (2,4))
print('2d array is ')
print( arr_2d)
     1d arr is
     [1 2 4 7 6 9 0 4]
     now converting 1d array to 2d array is
     2d array is
     [[1 2 4 7]
      [6 9 0 4]]
#5-write a code snippet to find the dimentions of
# an array and its size
import numpy as np
arr1 = np.array([1,2,8,5,7,6,5,6])
arr2 = np.array([[1,2],[3,4]])
shape_arr1 = np.size(arr1)
shape arr2 = np.size(arr2)
print('size of array 1 is')
print(shape arr1)
print('size of array 2')
print(shape arr2)
ndim arr1 = np.ndim(arr1)
ndim arr2 = np.ndim(arr2)
print('the dimention of array 1 is')
print(ndim arr1)
print('the dimention of array 2 is')
print(ndim arr2)
     size of array 1 is
     size of array 2
     the dimention of array 1 is
     the dimention of array 2 is
```