```
## Create a NumPy array 'arr' of integers from 0 to 5 and print its data type.
import numpy as np
arr = np.array([1,2,3,4,5,6])
\rightarrow array([1, 2, 3, 4, 5, 6])
## Given a NumPy array 'arr', check if its data type is float64.
   \# arr = np.array([1.5,2.6,3.7])
arr = np.array([1.5, 2.6, 3.7])
print(arr.dtype)
→ float64
## Create a NumPy array 'arr' with a data type of complex128 containing three complex numbers.
arr = np.array([1+5j,2+3j,4+22j])
print(arr.dtype)

→ complex128

## Convert an existing NumPy array 'arr' of integers to float32 data type.
arr = np.array([1,2,3,4,5,6],dtype = np.float32)
→ array([1., 2., 3., 4., 5., 6.], dtype=float32)
## Given a NumPy array 'arr' with float64 data type, convert it to float32 to reduce decimal precision.
arr = np.array([1.5, 2.6, 3.7, 3.6, 3.0], dtype = np.float32)
print(arr.dtype)
→ float32
# Write a function array_attributes that takes a NumPy array as input and returns its shape, size, and data type.
def array_attributes():
  arr = eval(input("enter the array"))
  arr = np.array(arr)
  print(arr.shape)
  print(arr.size)
  print(arr.dtype)
array_attributes()
enter the array([1,2,3,4,5],[9,8,7,6,4])
    (2, 5)
    10
    int64
## Create a function array_dimension that takes a NumPy array as input and returns its dimensionality.
def array_dimension():
  arr = eval(input("enter the array"))
  arr = np.array(arr)
  print(arr.ndim)
array_dimension()
\rightarrow enter the array([1,2,3,4,5],[9,8,7,6,4])
## Design a function item_size_info that takes a NumPy array as input and returns the item size and the total size in bytes.
def item_size_info():
  arr = eval(input("enter the array"))
```

```
arr = np.array(arr)
  print(arr.itemsize)
  print(arr.nbytes)
item_size_info()
   enter the array([1,2,3,4,5],[9,8,7,6,4])
    80
## Create a function array_strides that takes a NumPy array as input and returns the strides of the array.
def array_strides():
  arr = eval(input("enter the array"))
  arr = np.array(arr)
  print(arr.strides)
array_strides()
\rightarrow enter the array([1,2,3,4,5],[9,8,7,6,4])
    (40, 8)
## Design a function shape_stride_relationship that takes a NumPy array as input and returns the shape and strides of the array.
def shape_stride_relationship():
  arr = eval(input("enter the array"))
  arr = np.array(arr)
  print(arr.strides)
  print(arr.shape)
shape_stride_relationship()
\rightarrow enter the array([1,2,3,4,5],[9,8,7,6,4])
    (40, 8)
    (2, 5)
## Create a function `create_zeros_array` that takes an integer `n` as input and returns a NumPy array of zeros with `n` element
def create_zeros_array():
  arr = eval(input("enter the element of n:"))
  arr = np.zeros(arr,dtype = int)
  print(arr)
create_zeros_array()
\rightarrow enter the element of n:5
    [0 0 0 0 0]
## Write a function `create_ones_matrix` that takes integers `rows` and `cols` as inputs and generates a 2D
## NumPy array filled with ones of size `rows x cols`.
def create ones matrix():
  arr = eval(input("enter rows and cols "))
  arr = np.ones(arr,dtype = int)
  print(arr)
create_ones_matrix()
⇒ enter rows and cols (3,4)
    [[1 1 1 1]
     [1 1 1 1]
     [1 1 1 1]]
## Write a function `generate_range_array` that takes three integers start, stop, and step as arguments and
## creates a NumPy array with a range starting from `start`, ending at stop (exclusive), and with the specified
## `step`.
def generate_range_array():
 arr = eval(input("enter the step of array>> start,stop,step : "))
  arr = np.arange(*arr)
  print(arr)
```

```
generate_range_array()
enter the step of array>> start, stop, step : 2,9,2
    [2 4 6 8]
## Design a function `generate_linear_space` that takes two floats `start`, `stop`, and an integer `num` as
## arguments and generates a NumPy array with num equally spaced values between `start` and `stop`
## (inclusive).
def generate_linear_space():
  arr = eval(input("start ,stop , num :"))
  arr = np.linspace(*arr)
  print(arr)
generate_linear_space()
    start ,stop , num :2.3,8.3,5
    [2.3 3.8 5.3 6.8 8.3]
## Create a function `create_identity_matrix` that takes an integer `n` as input and generates a square
## identity matrix of size `n x n` using `numpy.eye`.
def create_identity_matrix():
  arr = eval(input("enter the integer :"))
  arr = np.eye(arr)
  print(arr)
create_identity_matrix()
→ enter the integer :5
     [[1. 0. 0. 0. 0.]
     [0. 1. 0. 0. 0.]
      [0. 0. 1. 0. 0.]
      [0. 0. 0. 1. 0.]
      [0. 0. 0. 0. 1.]]
## Write a function that takes a Python list and converts it into a NumPy array.
lis = [1,2,3,4,5,6,7,8]
arr = np.array(lis)
arr
→ array([1, 2, 3, 4, 5, 6, 7, 8])
## Create a NumPy array and demonstrate the use of `numpy.view` to create a new array object with the same data.
arr = np.array([1,2,3,4,5,6,7,8])
arr1 = arr.view()
arr1
\Rightarrow array([1, 2, 3, 4, 5, 6, 7, 8])
## Write a function that takes two NumPy arrays and concatenates them along a specified axis.
arr1 = np.array([1,2,3,4,5,6])
arr2 = np.array([9,8,7,5,4,3])
arr = np.concatenate((arr1,arr2))
\Rightarrow array([1, 2, 3, 4, 5, 6, 9, 8, 7, 5, 4, 3])
## Create two NumPy arrays with different shapes and concatenate them horizontally using `numpy concatenate`.
arr1 = np.array([[1,2,3,4,5,6]])
arr2 = np.array([[9,8,7,5,4,3]])
arr = np.concatenate((arr1,arr2),axis = 0)
arr
→ array([[1, 2, 3, 4, 5, 6],
            [9, 8, 7, 5, 4, 3]])
```

```
## Write a function that vertically stacks multiple NumPy arrays given as a list.(20)
import numpy as np
arr1 = np.array([[1,2,3,4,5,6]])
arr2 = np.array([[9,8,7,5,4,3]])
arr3 = np.array([[1,2,3,4,5,6]])
arr = np.concatenate((arr1,arr2,arr3),axis = 0)
arr
\Rightarrow array([[1, 2, 3, 4, 5, 6],
            [9, 8, 7, 5, 4, 3],
[1, 2, 3, 4, 5, 6]])
## Write a Python function using NumPy to create an array of integers within a specified range (inclusive)
## with a given step size.
a1 = np.arange(1,10,2)
\rightarrow array([1, 3, 5, 7, 9])
##Write a Python function using NumPy to generate an array of 10 equally spaced values between 0 and 1 (inclusive).
a2 = np.linspace(0,1,10)
a2
                      , 0.11111111, 0.22222222, 0.33333333, 0.44444444,
\rightarrow array([0.
            0.5555556, 0.66666667, 0.77777778, 0.88888889, 1.
## Write a Python function using NumPy to create an array of 5 logarithmically spaced values between 1 and 1000 (inclusive).
a3 = np.logspace(1,1000,5)
а3
    /usr/local/lib/python3.11/dist-packages/numpy/_core/function_base.py:312: RuntimeWarning: overflow encountered in power
       return _nx.power(base, y)
     array([1.00000000e+001, 5.62341325e+250,
                                                            inf.
                                                                              inf.
                        inf])
## Create a Pandas DataFrame using a NumPy array that contains 5 rows and 3 columns, where the values
## are random integers between 1 and 100.
import pandas as pd
df = pd.DataFrame(np.random.randint(1,100,(5,3)))
<del>_</del>
## Write a function that takes a Pandas DataFrame and replaces all negative values in a specific column
## with zeros. Use NumPy operations within the Pandas DataFrame.
df = pd.DataFrame(np.random.randint(-100,100,(5,4)))
df[df<0] = 0
df
```

**→**▼

```
## Access the 3rd element from the given NumPy array.
arr = np.array([10, 20, 30, 40, 50])
arr[2]
→ np.int64(30)
## Retrieve the element at index (1, 2) from the 2D NumPy array.
arr = np.random.randint(1,9,(4,3))
arr1 = arr[1,2]
arr1
\rightarrow np.int64(4)
## Using boolean indexing, extract elements greater than 5 from the given NumPy array.
## Using boolean indexing, extract elements greater than 5 from the given NumPy array.
arr = np.array([1,2,3,4,5,6,7,8])
arr1 = arr[arr<5]
arr1
\rightarrow array([1, 2, 3, 4])
## Perform basic slicing to extract elements from index 2 to 5 (inclusive) from the given NumPy array.
arr = np.random.randint(1,50,(6,5))
arr1 = arr[2:5]
arr1
→ array([[38, 43, 13, 27, 16],
            [13, 7, 8, 5, 24],
[16, 45, 45, 24, 1]])
## Slice the 2D NumPy array to extract the sub-array [[2, 3], [5, 6]] from the given array.
arr = np.random.randint(1,50,(8,7))
arr1 =arr[[2,3],[5,6]]
arr1
→ array([16, 27])
## Write a NumPy function to extract elements in specific order from a given 2D array based on indices
## provided in another array.
arr = np.random.randint(1,50,(8,7))
arr1 = arr[[0,4],
          [4,5]]
→ array([12, 25])
##32. Create a NumPy function that filters elements greater than a threshold from a given 1D array using
     boolean indexing.
import numpy as np
arr = np.array([1,24,12,13,14,15,16,17,18])
```

## Access the 3rd element from the given NumPy array.

```
threshold =14
arr1 = arr[arr>threshold]
arr1
→ array([24, 15, 16, 17, 18])
## Write a NumPy function that returns elements from an array where both two conditions are satisfied
## using boolean indexing.
arr = np.array([[[1,2,3,4],
               [8,5,6,7],
                [3,5,6,2]]])
arr1 = arr[(arr>3)&(arr>2)]
→ array([4, 8, 5, 6, 7, 5, 6])
## Create a NumPy function that extracts elements from a 2D array using row and column indices provided
## in separate arrays.
arr = np.array([[1,2,3,4],
               [8,5,6,7],
                [3,5,6,2]])
arr1 = arr[[0,1],
           [2,3],
           1
arr1
\rightarrow array([3, 7])
## Given an array arr of shape (3, 3), add a scalar value of 5 to each element using NumPy broadcasting.
arr = np.array([[1,2,4],
               [8,5,6],
                [3,6,2]])
arr1 = arr+5
arr1
⇒ array([[ 6, 7, 9], [13, 10, 11],
           [ 8, 11, 7]])
## Consider two arrays arr1 of shape (1, 3) and arr2 of shape (3, 4). Multiply each row of arr2 by the
## corresponding element in arr1 using NumPy broadcasting.
arr1 = np.array([1,2,3])
arr2 = np.array([[1,2,3,4],
               [8,5,6,7],
                [3,6,2,4]])
arr = arr1@arr2
arr
\Rightarrow array([26, 30, 21, 30])
## Given a 1D array arr1 of shape (1, 4) and a 2D array arr2 of shape (4, 3), add arr1 to each row of arr2 using
## NumPy broadcasting.
arr1 = np.array([1,2,4])
arr2 = np.array([[1,2,3],
               [8,5,6],
                [3,2,4],
                 [1,5,4]])
arr2 + arr1
```

```
## broadcasting.
arr1 = np.array([[3],
                 [4],
                 [5]])
arr2 = np.array([1,2,3])
arr1+arr2
⇒ array([[4, 5, 6], [5, 6, 7],
            [6, 7, 8]])
## Given arrays arr1 of shape (2, 3) and arr2 of shape (2, 2), perform multiplication using NumPy
## broadcasting. Handle the shape incompatibility.
arr1 = np.array([[2,3,4],
              [6,7,4]])
arr2 = np.array([[2,4],
                    [5,6]])
arr1_reshape = arr1.reshape(2,1,3)
arr2_reshape = arr2.reshape(2,2,1)
arr1_reshape*arr2_reshape
→ array([[[ 4, 6, 8], [ 8, 12, 16]],
            [[30, 35, 20],
             [36, 42, 24]]])
## Calculate column wise mean for the given array:
import numpy as np
arr = np.array([[1, 2, 3],
                 [4, 5, 6]])
arr.mean(axis = 0)
\Rightarrow array([2.5, 3.5, 4.5])
## Find maximum value in each row of the given array:
arr = np.array([[1, 2, 3], [4, 5, 6]])
arr.max(axis = 1)
\rightarrow array([3, 6])
## For the given array, find indices of maximum value in each column.
arr = np.array([[1, 2, 3], [4, 5, 6]])
np.argmax(arr,axis = 0)
\rightarrow array([1, 1, 1])
## For the given array, apply custom function to calculate moving sum along rows.
arr = np.array([[1, 2, 3], [4, 5, 6]])
np.cumsum(arr, axis =1)
⇒ array([[ 1, 3, 6],
 [ 4, 9, 15]])
##45. In the given array, check if all elements in each column are even.
arr = np.array([[2, 4, 6], [3, 5, 7]])
np.all(arr%2==0, axis = 0)
→ array([False, False, False])
```

## Consider two arrays arr1 of shape (3, 1) and arr2 of shape (1, 3). Add these arrays using NumPy

```
## reshaped matrix.
original_array = np.array([1, 2, 3, 4, 5, 6])
arr = np.matrix(original_array).reshape(2,3)
arr
\rightarrow matrix([[1, 2, 3],
## Create a function that takes a matrix as input and returns the flattened array.
input_matrix = np.array([[1, 2, 3], [4, 5, 6]])
def flatten_matrix(matrix):
                                                     ### input_matrix = np.array([[1, 2, 3], [4, 5, 6]])
                                                       # input_matrix.flatten()
  return matrix.flatten()
flatten_matrix = flatten_matrix(input_matrix)
flatten_matrix
\rightarrow array([1, 2, 3, 4, 5, 6])
## Write a function that concatenates two given arrays along a specified axis.
import numpy as np
array1 = np.array([[1, 2], [3, 4]])
array2 = np.array([[5, 6], [7, 8]])
array2 = np.concatenate((array1,array2),axis =1)
array2
→ array([[1, 2, 5, 6],
           [3, 4, 7, 8]])
## Create a function that splits an array into multiple sub-arrays along a specified axis.
array = np.array([[1, 2, 3], [4, 5, 6], [7, 8, 9]])
def split_array():
  return np.split(array,3,axis = 0)
split_array()
## Write a function that inserts and then deletes elements from a given array at specified indices.
original_array = np.array([1, 2, 3, 4, 5])
indices_to_insert = [2, 4]
values_to_insert = [10, 11]
indices_to_delete = [1, 3]
def delete_insert():
  inserted_array = np.insert(original_array,indices_to_insert,values_to_insert)
  deleted_array = np.delete(inserted_array,indices_to_delete)
  return deleted_array
delete_insert()
→ array([ 1, 10, 4, 11, 5])
## Create a NumPy array `arr1` with random integers and another array `arr2` with integers from 1 to 10.
## Perform element-wise addition between `arr1` and `arr2`.
arr1 = np.random.randint(2,9,(1,10))
arr1
arr2 = np.array([1,2,3,4,5,6,7,8,9,10])
arr1 + arr2
```

## Given a NumPy array arr, reshape it into a matrix of dimensions `m` rows and `n` columns. Return the

```
\Rightarrow array([[ 9, 5, 8, 8, 9, 10, 10, 11, 13, 13]])
## Generate a NumPy array `arr1` with sequential integers from 10 to 1 and another array `arr2` with integers
## from 1 to 10. Subtract `arr2` from `arr1` element-wise.
arr1 = np.array([10,9,8,7,6,5,4,3,2,1])
arr2 = np.array([1,2,3,4,5,6,7,8,9,10])
arr1 - arr2
\rightarrow array([ 9, 7, 5, 3, 1, -1, -3, -5, -7, -9])
## Create a NumPy array `arr1` with random integers and another array `arr2` with integers from 1 to 5.
## Perform element-wise multiplication between `arr1` and `arr2`
arr1 = np.random.randint(2,9,(1,5))
arr1
arr2 = np.array([1,2,3,4,5])
arr = arr1@arr2
arr
→ array([68])
## Generate a NumPy array `arr1` with even integers from 2 to 10 and another array `arr2` with integers from 1
## to 5. Perform element-wise division of `arr1` by `arr
arr1 = np.array([2,4,6,8,10])
arr2 = np.array([1,2,3,4,5])
arr = arr1/arr2
→ array([2., 2., 2., 2., 2.])
## Create a NumPy array `arr1` with integers from 1 to 5 and another array `arr2` with the same numbers
## reversed. Calculate the exponentiation of `arr1` raised to the power of `arr2` element-wise.
arr1 = np.array([1,2,3,4,5])
arr2 = np.array([5,4,3,2,1])
result = arr2**arr1
## Write a function that counts the occurrences of a specific substring within a NumPy array of strings.
arr = np.array(['hello', 'world', 'hello', 'numpy', 'hello'])
def count_occurrences(arr,substring ):
 return np.char.count(arr, substring).sum()
result = count_occurrences(arr,'hello')
print(result)
→ 3
## 57. Write a function that extracts uppercase characters from a NumPy array of strings.
## arr = np.array(['Hello', 'World', 'OpenAI', 'GPT'])
arr = np.array(['Hello', 'World', 'OpenAI', 'GPT'])
for i in arr:
  for char in i :
    if char.isupper() :
      print(list(char))
    ['H']
    ['W']
    ['0']
```

['A'] ['I']

```
['P']
     ['T']
## Write a function that replaces occurrences of a substring in a NumPy array of strings with a new string.
arr = np.array(['apple', 'banana', 'grape', 'pineapple'])
def replace_occ(arr, old_string ,new_string ):
  return np.char.replace(arr,old_string ,new_string)
replace_occ(arr, 'apple', 'mango')
array(['mango', 'banana', 'grape', 'pinemango'], dtype='<U9')</pre>
## 59. Write a function that concatenates strings in a NumPy array element-wise.
arr1 = np.array(['Hello', 'World'])
arr2 = np.array(['Open', 'AI'])
arr1 + arr2
⇒ array(['HelloOpen', 'WorldAI'], dtype='<U9')
## 60. Write a function that finds the length of the longest string in a NumPy array.
arr = np.array(['apple', 'banana', 'grape', 'pineapple'])
def longest():
  max_lenth = 0
  for i in arr :
    len(i) > max_lenth
    max_lenth = len(i)
  return max_lenth
print(longest())
→ 9
## 61. Create a dataset of 100 random integers between 1 and 1000. Compute the mean, median, variance, and
## standard deviation of the dataset using NumPy's functions.
import numpy as np
dataset = np.random.randint(1,1000,100)
dataset
mean_d = dataset.mean()
median_d = np.median(dataset)
variance_d = dataset.var()
standard_d = dataset.std()
print("mean_value:/n ",mean_d)
print("median_value:/n ", median_d)
print("var_value:/n ",variance_d)
print("std:/n ",standard_d)
⇒ mean_value:/n 485.87
     median_value:/n 463.0
     var_value:/n 71509.7931
     std:/n 267.41315057416307
##Generate an array of 50 random numbers between 1 and 100. Find the 25th and 75th percentiles of the dataset.
arr = np.random.randint(1,101,50)
arr25 = np.percentile(arr,25)
arr75 = np.percentile(arr,75)
print('pr25:',arr25,'pr75:',arr75)
```

['G']

```
## Create two arrays representing two sets of variables. Compute the correlation coefficient between these
## arrays using NumPy's `corrcoef` function.
import numpy as np
x = np.random.randint(1, 100, 50)
y = np.random.randint(1, 100, 50)
corr_matrix = np.corrcoef(x, y)
corr_matrix
                       , -0.06728035],
\rightarrow array([[ 1.
           [-0.06728035, 1.
## Create two matrices and perform matrix multiplication using NumPy's `dot` function.
mat1 = np.matrix([[1,2,3],[9,8,7],[4,5,6]])
mat2 = np.matrix([[3,4,5,8],[6,5,4,7],[2,3,4,6]])
mat_multification = mat1.dot(mat2)
{\tt mat\_multification}
⇒ matrix([[ 21, 23, 25, 40], [ 89, 97, 105, 170],
             [ 54, 59, 64, 103]])
## 65. Create an array of 50 integers between 10 and 1000. Calculate the 10th, 50th (median), and 90th
## percentiles along with the first and third quartiles.
arr = np.random.randint(10,1001,51)
el_percentile_10th = np.percentile(arr,10)
el_percentile_50th = np.percentile(arr,50)
el_percentile_90th = np.percentile(arr,90)
print('el_percentile_10th :',el_percentile_10th )
print('el_percentile_50th :',el_percentile_50th )
print('el_percentile_90th :',el_percentile_90th)
\Rightarrow el_percentile_10th : 130.0
    el_percentile_50th : 467.0
    el_percentile_90th : 843.0
## Create a NumPy array of integers and find the index of a specific element.
arr = np.arange(15)
index = np.where(arr == 4)[0]
print(index )
→ [4]
##Generate a random NumPy array and sort it in ascending order.
arr = np.random.randint(5,100,15)
arr1 = np.sort(arr)
arr1
→ array([ 8, 24, 26, 27, 36, 38, 49, 58, 59, 59, 70, 71, 74, 80, 91])
## Filter elements >20 in the given NumPy array.
arr = np.array([12, 25, 6, 42, 8, 30])
arr1 = arr[arr>20]
arr1
→ array([25, 42, 30])
## Filter elements which are divisible by 3 from a given NumPy array.
```

→ pr25: 20.75 pr75: 71.0

```
arr = np.array([1, 5, 8, 12, 15])
arr1 = arr[arr%3 == 0]
arr1
→ array([12, 15])
## 70 Filter elements which are \geq 20 and \leq 40 from a given NumPy array.
import numpy as np
arr = np.array([10, 20, 30, 40, 50])
arr1 = arr[(arr >= 20) & (arr<=40) ]
→ array([20, 30, 40])
## For the given NumPy array, check its byte order using the `dtype` attribute byteorder.
arr = np.array([1, 2, 3])
print(arr.dtype.byteorder)
⋺₹
## 72. For the given NumPy array, perform byte swapping in place using `byteswap()`.
arr = np.array([1, 2, 3], dtype=np.int32)
arr.byteswap()
→ array([16777216, 33554432, 50331648], dtype=int32)
##73. For the given NumPy array, swap its byte order without modifying the original array using
      `newbyteorder()`.
arr = np.array([1, 2, 3], dtype=np.int32)
old_byte = arr.dtype.byteorder
print('old byteorder :',old_byte)
print('new byteorder :',arr.dtype.newbyteorder())
→ old byteorder : =
    new byteorder : >i4
## For the given NumPy array and swap its byte order conditionally based on system endianness using
## `newbyteorder()`.
arr = np.array([1, 2, 3], dtype=np.int32)
old_byteorder = arr.dtype.byteorder
print('old_byteorder:',old_byteorder)
if old_byteorder == '=':
  swapped_arr = arr.dtype.newbyteorder()
  print('new_byteorder :', swapped_arr )
→ old_byteorder: =
    new_byteorder : >i4
##75. For the given NumPy array, check if byte swapping is necessary for the current system using `dtype`
## attribute `byteorder`.
arr = np.array([1, 2, 3], dtype=np.int32)
byte_order = arr.dtype.byteorder
if byte_order == '=':
  print('no need of byte swaping ')
else :
 print('byte swaping is necessary ')

→ no need of byte swaping
## Create a NumPy array `arr1` with values from 1 to 10. Create a copy of `arr1` named `copy_arr` and modify
```

```
## an element in `copy_arr`. Check if modifying `copy_arr` affects `arr1`.
arr1 = np.array([1,2,3,4,5,6,7,8,9,10])
copy_arr1 = np.array([1,2,3,4,5,6,7,8,9,10])
copy_arr1[4] = 4
if np.array_equal(arr1,copy_arr1) :
 print('copy_arr1 effectes arr1 ')
  print('copy_arr1 does not effect arr1 ')
→ copy_arr1 does not effect arr1
##77. Create a 2D NumPy array `matrix` of shape (3, 3) with random integers. Extract a slice `view_slice` from
## the matrix. Modify an element in `view_slice` and observe if it changes the original `matrix`
arr = np.random.randint(2,9,(3,3))
view_slice = arr[0:2,0:3]
view_slice[2] = 8
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