Py-numpy1

Create a numpy array with following elements. Display the elements of the array in reverse.

Array elements: 10,20,30,40,50

Output:

[50,40,30,20,10]

Solution:

#write your code here to create the array

import numpy as nd

x=nd.array([10,20,30,40,50])

#print the array elements in reverse

print(x[::-1])

**py-numpy2**

Create a numpy array with the following

1. Elements from 4 to 50

2. Only Even numbers

3. Data type is float

Sample Output:

[ 4. 6. 8. 10. ... 50.]

Solution:

#Write your code here...

# import numpy package

import numpy as np

# Create numpy array A

A=np.arange(4,51,2,dtype=float)

# Display A

print(A)

**py-numpy3**

Create the numpy array with the following

1. Create 1 Dimension array A

2. Reshape A with 4 dimensions

1D = 2 Elements

2D = 3 Elements

3D = 4 Elements

4D = 5 Elements

2. Data type is int32

3. Display A

4. Display Dimensions

5. Display Data type

Solution:

#Write your code here...

# Import numpy package

import numpy as np

# Create numpy array A with appropriate number of elements

A= np.arange(120,dtype=np.int32)

# Reshape A with the given dimensions.

A=A.reshape(2,3,4,5)

# Display A

print(A)

# Display Dimensions

print(A.shape)

# Display data type

print(A.dtype)