PYTHON PROGRAMMING

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LAB-16 ANSWERS

HAREESHA H M

AF0364330

1. Convert the below list into numpy array then display the array

 Input: my\_list = [1, 2, 3, 4, 5]

Code:

import numpy as np #importing numpy.

list = [1, 2, 3, 4, 5] #inputing the list of elements.

numpy\_array = np.asarray(list) #Converting the list into numpy\_array.

print(numpy\_array) #printing the result as numpy\_array.

Output:

[1 2 3 4 5]

2. Convert the below list into a numpy array then display the array then display the first and last index and then multiply each element by 2 and display the result.

 Input: my\_list = [1, 2, 3, 4, 5]

Code:

import numpy as np #importing numpy as np.

list = [1, 2, 3, 4, 5] #inputing the list of elements.

numpy\_array = np.array(list) # Converting the list to numpy\_array.

print("Numpy Array:", numpy\_array) # Display the numpy\_array.

first\_index = 0 # Display the first index of the list.

last\_index = len(numpy\_array) - 1 # Display the last index of the list.

print("First Index:", first\_index) # printing the first index of the list.

print("Last Index:", last\_index) # printing the last index of the list.

result\_array = numpy\_array \* 2 # Multiply each element by 2.

print("Result after multiplying each element by 2:", result\_array) # Display the result as result\_array.

Output:

Numpy Array: [1 2 3 4 5]

First Index: 0

Last Index: 4

Result after multiplying each element by 2: [ 2 4 6 8 10]