PYTHON LAB – 16

NUMPY

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QUESTIONS

1. Convert the below list into numpy array then display the array
   Input: my_list = [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]

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

   Input: my_list = [1, 2, 3, 4, 5]

```python
import numpy as np #importing numpy
my_list = np.array([1, 2, 3, 4, 5],dtype=np.int8)
#converting list to numpy array
print(my_list) #printing 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]

```python
import numpy as np #importing numpy
my_list = np.array([1, 2, 3, 4, 5]) #converting
list to numpy array
print(my_list) #printing array
print("First index :",my_list[0]) #printing first
index
print("Last index :",my_list[-1]) #printing last
index
res = my_list * 2 #multiplying each element by 2
print("After multiplying each element by 2 :",res)
#printing result
```

OUTPUT:

[1 2 3 4 5]

First index : 1

Last index : 5

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