

Module 2 Linear Operations with NumPy

Please refer to the below script. It performs matrix addition.

Sample Script

```
import numpy as np
a = np.array([[1,2],[4,5],[3,10],[1,4]])
b = np.array([[3,5],[1,4],[1,7],[3,10]])
print("Matrix a")
print(a)
print("Matrix b")
print(b)
print("Matrix a+b")
print(a+b)
```

Script Output

Combine various operators

```
import numpy as np
a = np.array([[1],[2],[1]])
b = np.array([[0],[1],[0]])
c = np.array([[3],[4],[7]])
```

```
print(3 * a + b - c / 3)
```

Output

Masked Array

```
import numpy as np
import numpy.ma as ma
x = np.array([2, 5, 10, -1, 15])
mx = ma.masked_array(x, mask=[0, 0, 0, 1, 0])
print(mx.mean())
```

Output