import numpy as np

m = np.arange(9).reshape((3, 3))  
mat = np.array([[10, 11, 12], [13, 14, 15]])  
  
print("Matrix 1 is: \n", m)  
print("\nMatrix 2 is: \n", mat)

Matrix 1 is:   
 [[0 1 2]  
 [3 4 5]  
 [6 7 8]]  
  
Matrix 2 is:   
 [[10 11 12]  
 [13 14 15]]

2 + m

array([[ 2, 3, 4],  
 [ 5, 6, 7],  
 [ 8, 9, 10]])

10 - m

array([[10, 9, 8],  
 [ 7, 6, 5],  
 [ 4, 3, 2]])

7 \* m

array([[ 0, 7, 14],  
 [21, 28, 35],  
 [42, 49, 56]])

np.matmul(m, mat.T)

array([[ 35, 44],  
 [134, 170],  
 [233, 296]])

# Row 2, all Columns  
m[1, :]

array([3, 4, 5])

# All Row 2, Column 2  
m[:, 1]

array([1, 4, 7])