Program 14

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1 PROGRAM 14

Aim : Write a numpy program to compute

a) multiplication of two given matrices.
b) addition of two matrices ##### Date :19/08/2022 ##### By :Anu C Scharia

```python
[11]: import numpy as np
      m1=np.arange(9).reshape(3,3)
      m2=np.array([[2,3,4],[1,2,3],[6,1,2]])
      print("First matrix :\n",m1)
      print("Secon matrix :\n",m2)
      r1=np.matmul(m1,m2)
      r2=m1+m2
      print("Matrix Multiplication :\n",r1)
      print("Sum of matrix :\n",r2)
```

```
First matrix :
 [[0 1 2]
 [3 4 5]
 [6 7 8]]
Secon matrix :
 [[2 3 4]
 [1 2 3]
 [6 1 2]]
Matrix Multiplication :
 [[13  4  7]
 [40 22 34]
 [67 40 61]]
Sum of matrix :
 [[ 2  4  6]
 [ 4  6  8]
 [12  8 10]]
```

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[ ]:
```