ASSIGNMENT-6

MATRIX MULTIPLICATION

Dataset-

Mapper code-

```
Fri 10:36
                                                           mapper.py
                                                                                                  Save ≡ 🖨 🗈 😵
             Open▼ <u>F</u>
            #!/usr/bin/python3
            import sys
            M1_row=0
        DefaM1_col=0
M2_row=0
            M2_col=0
            for line in sys.stdin:
              a=line.strip().split(" ")
if(a[0]=='M1'):
 0
                 print(a[1]+","+a[2],a[3])
              else:
                 print(a[1]+","+a[2],a[3])
```

Mapper output-

```
roott23@roott23-Lenovo-tdeapad-330-15IN8:-$ hadoop fs 'cat /Input/matrix.txt | '/home/roott23/bocuments/hadoop/matrix/mapper.py'
0,0 1
0,0 1
0,0 2
0,3 6
0,4 8
0,4 8
0,1 8
0,2 8
1,1 0
1,2 9
2,3 5
2,4 7
0,0 5
0,2 3
1,0 3
1,0 7
1,1 7
1,2 9
2,0 4
2,1 5
2,2 1
3,0 0
3,1 3
3,2 6
4,0 1
4,1 2
4,2 0
```

Reducer code-

Reducer output

```
Result of Matrix Multiplication is:
[[14, 49, 35, 57, 67], [26, 87, 51, 91, 101], [15, 28, 33, 49, 49], [12, 48, 21, 42, 48], [5, 5, 10, 14, 12]]
```