Python Programming

LABORATORY MANUAL

B.Tech Semester -IV

Subject Code: (KNC-402)

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OBJECT-:
To write a python program to perform Matrix Multiplication. (Without builtin functions)

PROGRAM-:

```
matrix.py > ...
    rows=2
    cols=3
    M1=[[1,2,3],
        [4,5,6]]
    M2=[[7,8],
        [9,10],
        [11,12]]
    my_list=[]

    for  l_row in range(0,rows):
        temp_list=[]
        for k in range(0,rows):
            sum1=0
            for l_col in range(0,cols):
                sum1=sum1+(M1[l_row][l_col]*M2[l_col][k])

            temp_list.append(sum1)
        my_list.append(temp_list)
    for row in my_list:
        print(row)
```

OUTPUT-:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All
PS D:\Python> python -u "d:\Python\matrix
[58, 64]
[139, 154]
PS D:\Python>
```