1. Write a Python Program to Add Two Matrices?

```
In [2]: a=[[1,2],[3,4]]
        b=[[10,20],[30,40]]
```

```
In [3]: k=[[0,0],[0,0]]
        for i in range(len(a)):
            for j in range(len(b)):
                k[i][j]=(a[i][j]+b[i][j])
        print(k)
```

```
[[11, 22], [33, 44]]
```

2. Write a Python Program to Multiply Two Matrices?

```
In [5]: m=[[0,0],[0,0]]
        for i in range(len(a)):
            for j in range(len(b[0])):
                for k in range(len(b)):
                    m[i][j] += a[i][k] * b[k][j]
        print(m)
```

```
[[70, 100], [150, 220]]
```

3. Write a Python Program to Transpose a Matrix?

```
In [7]: t=[[0,0],[0,0]]
        for i in range(len(a)):
            for j in range(len(a[0])):
                t[i][j]=a[j][i]
        print(t)
```

```
[[1, 3], [2, 4]]
```

4. Write a Python Program to Sort Words in Alphabetic Order?

```
In [26]: any_str="Hello ineuron My name is Sujit Kumar Roy"
         s=any_str.split()
         s1=[x.lower() for x in s]
         s1.sort()
         print(s1)
```

```
['hello', 'ineuron', 'is', 'kumar', 'my', 'name', 'roy', 'sujit']
```

5. Write a Python Program to Remove Punctuation From a String?

```
In [38]: any_str="Hello,World: My, name is Sujit.Kumar!Roy"
         punctuations='''`~!@#$%^&*()_+=-[]\;'/.,<>?:"'''
```

```
In [39]: punctuations
```

```
Out[39]: '`~!@#$%^&*()_+=-[]\\;\'/.,<>?:"'
```

```
In [40]: for ele in any_str:
             if ele in punctuations:
                 print(ele)
                 any_str=any_str.replace(ele," ")
```

```
        ,
        :
        ,
        .
        !
```

```
In [41]: any_str
```

```
Out[41]: 'Hello World  My  name is Sujit Kumar Roy'
```

```
In [ ]:
```