

## 1. Write a Python Program to Add Two Matrices?

In [11]:

```

1 a=[[1,2,3],[4,5,6]]
2 b=[[1,2,3],[4,5,6]]
3 c=[[0,0,0],[0,0,0]]
4
5 for i in range(len(a)):
6     for j in range(len(b)+1):
7         c[i][j]=a[i][j]+b[i][j]
8
9 print(c)
10
11
```

[[2, 4, 6], [8, 10, 12]]

## 2. Write a Python Program to Multiply Two Matrices?

In [15]:

```

1 a=[[1,2,3],[4,5,6]]
2 b=[[1,2],[3,4],[5,6]]
3 c=[[0 for i in range(len(a))],[0 for i in range(len(b[0]))]]
4 if len(a[0])==len(b):
5     for i in range(len(a)):
6         for j in range(len(b[0])):
7             for k in range(len(b)):
8                 c[i][j]+=a[i][k]*b[k][j]
9     print(c)
10 else:
11     print("the multiplication is not possible")
```

[[22, 28], [49, 64]]

## 3. Write a Python Program to Transpose a Matrix?

In [17]:

```

1 a=[[1,2],[3,4],[5,6]]
2 b=[[0 for i in range(len(a))] for j in range(len(a[0]))]
3
4 for i in range(len(b)):
5     for j in range(len(b[0])):
6         b[i][j]=a[j][i]
7 print(b)
```

[[1, 3, 5], [2, 4, 6]]

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

In [18]:

```
1 k=["ali","ramesjj","nte","kre","kde"]
2 print(sorted(k))
```

```
['ali', 'kde', 'kre', 'nte', 'ramesjj']
```

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

In [20]:

```
1 punc='''!()-[]{};:'"\<>./?@#$$%^&*~'''
2
3 n=input()
4 for i in n:
5     if i in punc:
6         n=n.replace(i,"")
7 print(n)
```

```
hello! this is dollar $ and this is %
```

```
hello this is dollar  and this is
```