## **Programming Assignment-8**

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

# Program to add two matrices using list comprehension

```
X = [[12,7,3],
   [4,5,6],
   [7,8,9]]

Y = [[5,8,1],
   [6,7,3],
   [4,5,9]]

result = [[X[i][j] + Y[i][j] for j in range(len(X[0]))] for i in range(len(X))]

for r in result:
   print(r)
```

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

result= [[0,0,0,0], [0,0,0,0], [0,0,0,0]]

result = np.dot(A,B)

for r in result: print(r)

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

```
X = [[12,7],
  [4,5],
  [3,8]]

result = [[X[j][i] for j in range(len(X))] for i in range(len(X[0]))]

for r in result:
  print(r)
```

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

```
my_str = "Hello this Is an Example With cased letters"
# To take input from the user
#my_str = input("Enter a string: ")
words = [word.lower() for word in my_str.split()]
words.sort()
print("The sorted words are:")
for word in words:
    print(word)
```

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

def Punctuation(string):

Punctuation(string)

string = "Welcome???@@##\$ to#\$% Geeks%\$^for\$%^&Geeks"