1. Write a Python Program to Add Two Matrices?
2. Write a Python Program to Multiply Two Matrices?
3. Write a Python Program to Transpose a Matrix?
4. Write a Python Program to Sort Words in Alphabetic Order?
5. Write a Python Program to Remove Punctuation From a String?

Ans: Sure! Here are the Python programs for each of the tasks you mentioned:

1. Python Program to Add Two Matrices:

```python

def add\_matrices(matrix1, matrix2):

rows = len(matrix1)

columns = len(matrix1[0])

result = [[0 for \_ in range(columns)] for \_ in range(rows)]

for i in range(rows):

for j in range(columns):

result[i][j] = matrix1[i][j] + matrix2[i][j]

return result

# Example matrices

matrix1 = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

matrix2 = [[10, 11, 12],

[13, 14, 15],

[16, 17, 18]]

result = add\_matrices(matrix1, matrix2)

for row in result:

print(row)

```

2. Python Program to Multiply Two Matrices:

```python

def multiply\_matrices(matrix1, matrix2):

rows1 = len(matrix1)

columns1 = len(matrix1[0])

rows2 = len(matrix2)

columns2 = len(matrix2[0])

if columns1 != rows2:

print("Matrices cannot be multiplied.")

return None

result = [[0 for \_ in range(columns2)] for \_ in range(rows1)]

for i in range(rows1):

for j in range(columns2):

for k in range(columns1):

result[i][j] += matrix1[i][k] \* matrix2[k][j]

return result

# Example matrices

matrix1 = [[1, 2],

[3, 4],

[5, 6]]

matrix2 = [[7, 8, 9],

[10, 11, 12]]

result = multiply\_matrices(matrix1, matrix2)

for row in result:

print(row)

```

3. Python Program to Transpose a Matrix:

```python

def transpose\_matrix(matrix):

rows = len(matrix)

columns = len(matrix[0])

result = [[0 for \_ in range(rows)] for \_ in range(columns)]

for i in range(rows):

for j in range(columns):

result[j][i] = matrix[i][j]

return result

# Example matrix

matrix = [[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

result = transpose\_matrix(matrix)

for row in result:

print(row)

```

4. Python Program to Sort Words in Alphabetic Order:

```python

def sort\_words(sentence):

words = sentence.split()

words.sort()

return " ".join(words)

# Example sentence

sentence = "Hello, this is an example sentence to sort words in alphabetic order."

sorted\_sentence = sort\_words(sentence)

print(sorted\_sentence)

```

5. Python Program to Remove Punctuation From a String:

```python

import string

def remove\_punctuation(text):

translator = str.maketrans("", "", string.punctuation)

return text.translate(translator)

# Example string

string\_with\_punctuation = "Hello, world! This is a string with punctuation."

string\_without\_punctuation = remove\_punctuation(string\_with\_punctuation)

print(string\_without\_punctuation)

```

I hope these programs help you! Let me know if you have any further questions.