1. Write a Python Program to Add Two Matrices?

2. Write a Python Program to Multiply Two Matrices

```
Soln:

# Take 3x3 matrix

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

B = [[5, 8, 1, 2],
        [6, 7, 3, 0],
        [4, 5, 9, 1]]

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

for i in range(len(A)):
        for j in range(len(B[0])):
```

```
for k in range(len(B)):
    result[i][j] += A[i][k] * B[k][j]

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

3. Write a Python Program to Transpose a Matrix

```
Soln:

def transpose_matrix(matrix):

# Get the number of rows and columns in the matrix

num_rows = len(matrix)

num_cols = len(matrix[0])

# Create a new matrix with swapped dimensions

transposed_matrix = [[0 for j in range(num_rows)] for i in range(num_cols)]

# Fill the new matrix with the transposed values

for i in range(num_rows):

for j in range(num_cols):

transposed_matrix[j][i] = matrix[i][j]

return transposed_matrix
```

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

```
Soln:
```

```
def sort_words_alphabetically(sentence):
    # Spliting the sentence into words
    words = sentence.split()

# Sorting the words in alphabetical order
    sorted_words = sorted(words)

# Joining the sorted words into a new sentence
    sorted_sentence = " ".join(sorted_words)
```

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

Soln:

```
import string
def remove_punctuation(text):
    punctuation = string.punctuation
    no_punctuation_text = "".join(char for char in text if char not in punctuation)
    return no_punctuation_text
```