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Q1 Write a Python Program to Add Two Matrices?
def add_matrices(matrix1, matrix2):
  rows = len(matrix1)
  columns = len(matrix1[0])
  result = [[0] * columns for _ in range(rows)]
  # Perform element-wise addition
  for i in range(rows):
    for j in range(columns):
       result[i][j] = matrix1[i][j] + matrix2[i][j]
  return result
matrix1 = [[1, 2, 3],
      [4, 5, 6],
      [7, 8, 9]]
matrix2 = [[9, 8, 7],
      [6, 5, 4],
      [3, 2, 1]]
result = add_matrices(matrix1, matrix2)
for row in result:
  print(row)
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def multiply_matrices(matrix1, matrix2):
  rows1 = len(matrix1)
  columns1 = len(matrix1[0])
  rows2 = len(matrix2)
  columns2 = len(matrix2[0])
  # Check if the matrices can be multiplied
  if columns1 != rows2:
    print("Cannot multiply the matrices. Invalid dimensions.")
    return None
  # Create a result matrix with dimensions rows1 x columns2
  result = [[0] * columns2 for _ in range(rows1)]
  # Perform matrix multiplication
  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 usage
matrix1 = [[1, 2, 3],
      [4, 5, 6]]
matrix2 = [[7, 8],
      [9, 10],
      [11, 12]]
```

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result = multiply_matrices(matrix1, matrix2)
# Print the result matrix
for row in result:
  print(row)
Q3. Write a Python Program to Transpose a Matrix?
def transpose_matrix(matrix):
  rows = len(matrix)
  columns = len(matrix[0])
  result = [[0] * rows for _ in range(columns)]
  for i in range(rows):
    for j in range(columns):
      result[j][i] = matrix[i][j]
  return result
matrix = [[1, 2, 3],
     [4, 5, 6],
     [7, 8, 9]]
result = transpose_matrix(matrix)
for row in result:
  print(row)
```

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def sort_words(words):
  sorted_words = sorted(words)
  return sorted_words
# Example usage
word_list = ["apple", "banana", "cherry", "date", "fig"]
sorted_words = sort_words(word_list)
for word in sorted_words:
  print(word)
Q5. Write a Python Program to Remove Punctuation From a String
import string
def remove_punctuation(text):
  # Create a translation table to remove punctuation
  translator = str.maketrans(", ", string.punctuation)
  # Remove punctuation using the translation table
  text_without_punctuation = text.translate(translator)
  return text_without_punctuation
# Example usage
input_text = "Hello, World! This is an example string."
text_without_punctuation = remove_punctuation(input_text)
```

Q4. Write a Python Program to Sort Words in Alphabetic Order?

print(text_without_punctuation)