|  |
| --- |
| Python Assignment 8  1. Write a Python Program to Add Two Matrices? |
|  | # In[29]: |
|  |  |
|  |  |
|  | One = [] |
|  | print("Enter 9 Elements for First Matrix: ") |
|  | for i in range(3): |
|  | One.append([]) |
|  | for j in range(3): |
|  | num = int(input()) |
|  | One[i].append(num) |
|  |  |
|  | Two = [] |
|  | print("Enter 9 Elements for Second Matrix: ") |
|  | for i in range(3): |
|  | Two.append([]) |
|  | for j in range(3): |
|  | num = int(input()) |
|  | Two[i].append(num) |
|  |  |
|  | Three = [] |
|  | for i in range(3): |
|  | Three.append([]) |
|  | for j in range(3): |
|  | Three[i].append(One[i][j]+Two[i][j]) |
|  |  |
|  | print("Addition Result of Two Given Matrix is:") |
|  | for i in range(3): |
|  | for j in range(3): |
|  | print(Three[i][j], end=" ") |
|  | print() |
|  |  |
|  | 2. Write a Python Program to Multiply Two Matrices? |
|  | # In[2]: |
|  |  |
|  |  |
|  | matOne = [] |
|  | print("Enter 9 Elements for First Matrix: ") |
|  | for i in range(3): |
|  | matOne.append([]) |
|  | for j in range(3): |
|  | num = int(input()) |
|  | matOne[i].append(num) |
|  |  |
|  | matTwo = [] |
|  | print("Enter 9 Elements for Second Matrix: ") |
|  | for i in range(3): |
|  | matTwo.append([]) |
|  | for j in range(3): |
|  | num = int(input()) |
|  | matTwo[i].append(num) |
|  |  |
|  | matThree = [] |
|  | for i in range(3): |
|  | matThree.append([]) |
|  | for j in range(3): |
|  | matThree[i].append(matOne[i][j] \* matTwo[i][j]) |
|  |  |
|  | print("\nAddition Result of Two Given Matrix is:") |
|  | for i in range(3): |
|  | for j in range(3): |
|  | print(matThree[i][j], end=" ") |
|  | print() |
|  |  |
|  | 3. Write a Python Program to Transpose a Matrix? |
|  | # In[28]: |
|  |  |
|  |  |
|  | One = [] |
|  | print("Enter 9 Elements for Matrix: ") |
|  | for i in range(3): |
|  | One.append([]) |
|  | for j in range(3): |
|  | num = int(input()) |
|  | One[i].append(num) |
|  |  |
|  | Three = [] |
|  | for i in range(3): |
|  | Three.append([]) |
|  | for j in range(3): |
|  | Three[i].append(One[i][j]) |
|  |  |
|  | print("Transpose of Matrix is:") |
|  | for i in range(3): |
|  | for j in range(3): |
|  | print(Three[j][i], end=" ") |
|  | print() |
|  |  |
|  | 4. Write a Python Program to Sort Words in Alphabetic Order? |
|  |  |
|  | # In[26]: |
|  |  |
|  |  |
|  | 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? |
|  | # In[32]: |
|  |  |
|  |  |
|  | punc = '''!()-[]{};:'"\,<>./?@#$%^&\*\_~''' |
|  |  |
|  | my\_str = input("Enter a string: ") |
|  |  |
|  | # remove punctuation from the string |
|  | no\_punct = "" |
|  | for char in my\_str: |
|  | if char not in punc: |
|  | no\_punct = no\_punct + char |
|  |  |
|  | # display the unpunctuated string |
|  | print(no\_punct) |