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matrix.py - C:/Python3.14/matrix.py (3.14.0)
File Edit Format Run Options Window Help
x1 = int(input("Enter rows of first matrix: "))
c1 = int(input("Enter columns of first matrix: "))

x2 = int(input("Enter rows of second matrix: "))
c2 = int(input("Enter columns of second matrix: "))

if c1 != x2:
    print("Matrix multiplication not possible")
else:
    A = []
    B = []

    print("Enter first matrix elements:")
    for i in range(x1):
        row = []
        for j in range(c1):
            row.append(int(input()))
        A.append(row)

    print("Enter second matrix elements:")
    for i in range(x2):
        row = []
        for j in range(c2):
            row.append(int(input()))
        B.append(row)

    result = [[0 for j in range(c2)] for i in range(x1)]

    for i in range(x1):
        for j in range(c2):
            for k in range(c1):
                result[i][j] += A[i][k] * B[k][j]

    print("Resultant matrix:")
    for i in range(x1):
        for j in range(c2):
            print(result[i][j], end=" ")
        print()

Python 3.14.0 (tags/v3.14.0:reh955d, Oct 7 2025, 10:15:03) [MSC v.1944
64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
===== RESTART: C:/Python3.14/matrix.py =====
>>>
Enter rows of first matrix: 1
Enter columns of first matrix: 2
Enter rows of second matrix: 3
Enter columns of second matrix: 4
Matrix multiplication not possible
>>>
```