

A screenshot of a Windows desktop environment showing two windows. The top window is a code editor titled "matrix.py - C:/Python3.14/matrix.py (3.14.0)" containing Python code for matrix multiplication. The bottom window is a terminal titled "IDLE Shell 3.14.0" showing the execution of the script.

```
matrix.py - C:/Python3.14/matrix.py (3.14.0)
File Edit Format Run Options Window Help
r1 = int(input("Enter rows of first matrix: "))
c1 = int(input("Enter columns of first matrix: "))
r2 = int(input("Enter rows of second matrix: "))
c2 = int(input("Enter columns of second matrix: "))

if c1 != r2:
    print("Matrix multiplication not possible")
else:
    A = []
    B = []

print("Enter first matrix elements:")
for i in range(r1):
    row = []
    for j in range(c1):
        row.append(int(input()))
    A.append(row)

print("Enter second matrix elements:")
for i in range(r2):
    row = []
    for j in range(c2):
        row.append(int(input()))
    B.append(row)

result = [[0 for j in range(c2)] for i in range(r1)]
for i in range(r1):
    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(r1):
    for j in range(c2):
        print(result[i][j], end=" ")
    print()

===== RESTART: C:/Python3.14/matrix.py =====
Python 3.14.0 (tags/v3.14.0-160-gebf955d, Oct  7 2025, 10:15:03) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
=====
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
```