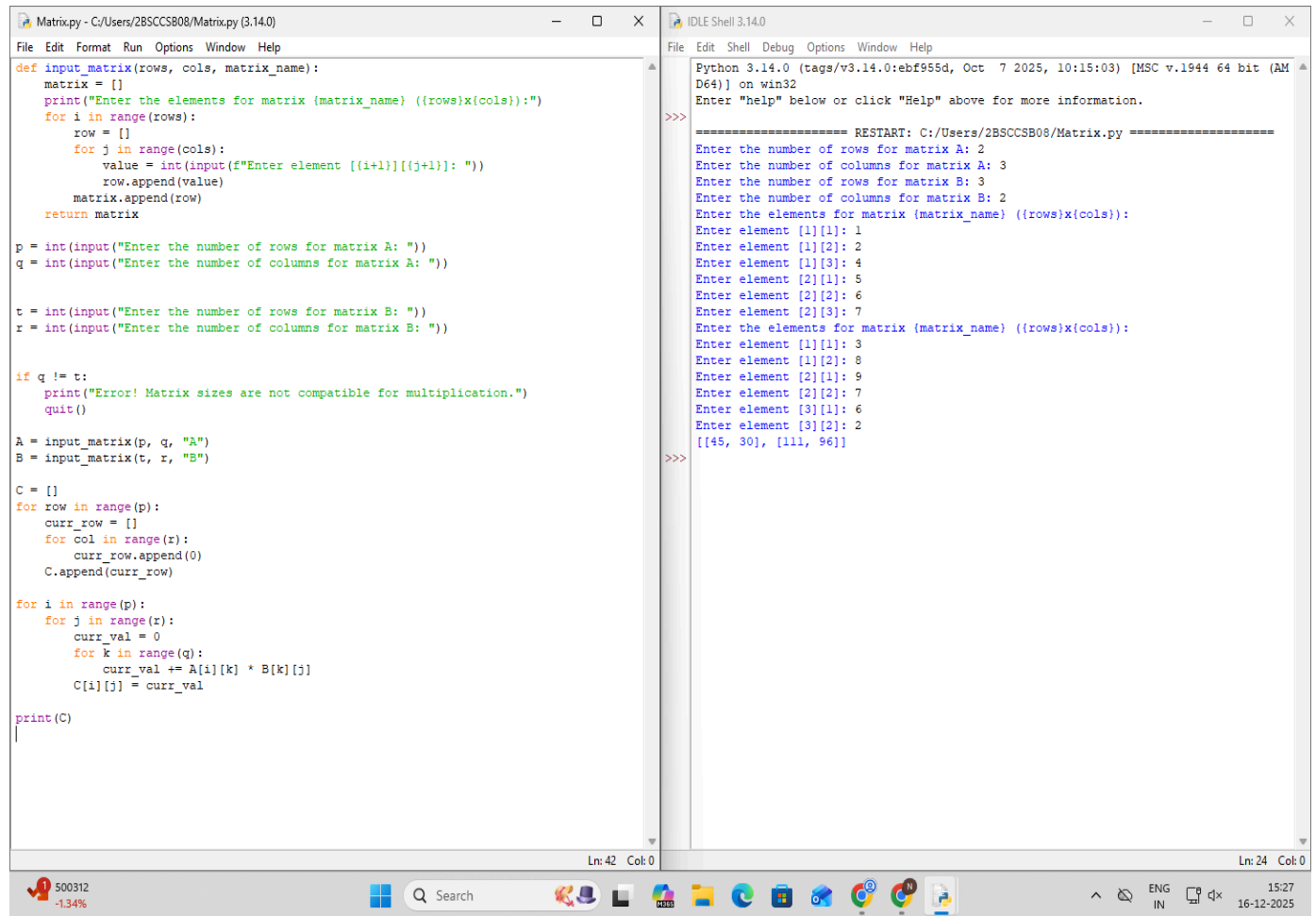


Matrix to get input from user



The image shows a screenshot of a Python IDE with two windows. The left window, titled 'Matrix.py - C:/Users/2BSCCSB08/Matrix.py (3.14.0)', contains the source code for a program that takes user input for two matrices and multiplies them. The right window, titled 'IDLE Shell 3.14.0', shows the program's execution, including prompts for matrix dimensions and elements, and the resulting product matrix.

```
def input_matrix(rows, cols, matrix_name):
    matrix = []
    print("Enter the elements for matrix (matrix_name) ((rows)x(cols)):")
    for i in range(rows):
        row = []
        for j in range(cols):
            value = int(input(f"Enter element [{i+1}][{j+1}]: "))
            row.append(value)
        matrix.append(row)
    return matrix

p = int(input("Enter the number of rows for matrix A: "))
q = int(input("Enter the number of columns for matrix A: "))

t = int(input("Enter the number of rows for matrix B: "))
r = int(input("Enter the number of columns for matrix B: "))

if q != t:
    print("Error! Matrix sizes are not compatible for multiplication.")
    quit()

A = input_matrix(p, q, "A")
B = input_matrix(t, r, "B")

C = []
for row in range(p):
    curr_row = []
    for col in range(r):
        curr_row.append(0)
    C.append(curr_row)

for i in range(p):
    for j in range(r):
        curr_val = 0
        for k in range(q):
            curr_val += A[i][k] * B[k][j]
        C[i][j] = curr_val

print(C)
```

```
>>>
===== RESTART: C:/Users/2BSCCSB08/Matrix.py =====
Enter the number of rows for matrix A: 2
Enter the number of columns for matrix A: 3
Enter the number of rows for matrix B: 3
Enter the number of columns for matrix B: 2
Enter the elements for matrix (matrix_name) ((rows)x(cols)):
Enter element [1][1]: 1
Enter element [1][2]: 2
Enter element [1][3]: 4
Enter element [2][1]: 5
Enter element [2][2]: 6
Enter element [2][3]: 7
Enter the elements for matrix (matrix_name) ((rows)x(cols)):
Enter element [1][1]: 3
Enter element [1][2]: 8
Enter element [2][1]: 9
Enter element [2][2]: 7
Enter element [3][1]: 6
Enter element [3][2]: 2
[[45, 30], [111, 96]]
>>>
```

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-1.34%

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