1. **Prob Name:** 4*4 Matrix

2. **Source code:** *import numpy as np*

   #4x4 unit matrix
   unit_matrix = np.ones((4, 4))
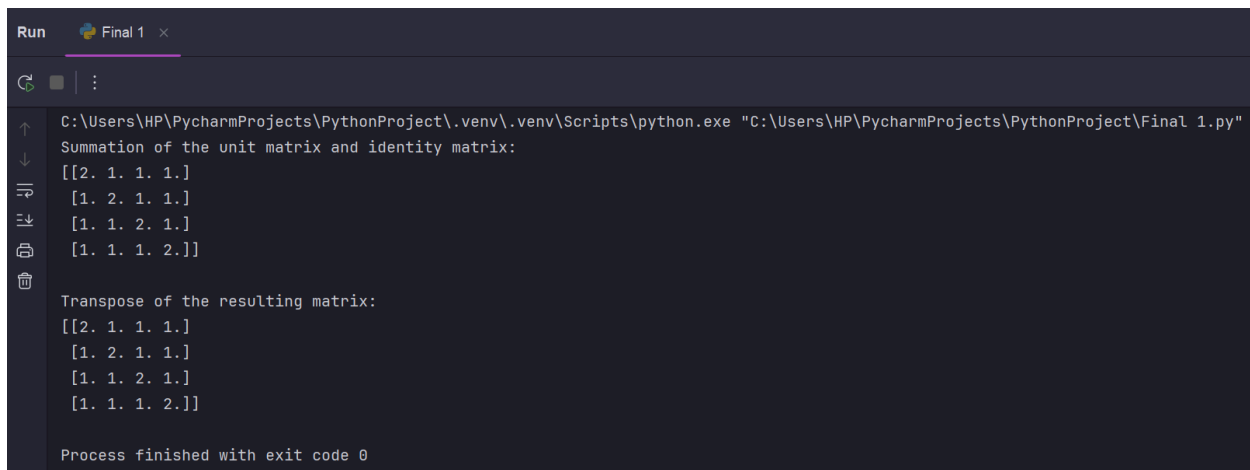
   #4x4 identity matrix
   identity_matrix = np.eye(4)

   #summation
   sum_matrix = unit_matrix + identity_matrix

   # Print
   print("Summation of the unit matrix and identity matrix:")
   print(sum_matrix)

   #transpose of result
   transpose_matrix = sum_matrix.T
   print("\nTranspose of the resulting matrix:")
   print(transpose_matrix)

3. **Output:**

```
Run     Final 1  ×

C:\Users\HP\PycharmProjects\PythonProject\.venv\.venv\Scripts\python.exe "C:\Users\HP\PycharmProjects\PythonProject\Final 1.py"
Summation of the unit matrix and identity matrix:
[[2. 1. 1. 1.]
 [1. 2. 1. 1.]
 [1. 1. 2. 1.]
 [1. 1. 1. 2.]]

Transpose of the resulting matrix:
[[2. 1. 1. 1.]
 [1. 2. 1. 1.]
 [1. 1. 2. 1.]
 [1. 1. 1. 2.]]

Process finished with exit code 0
```