EXPERIMENT-3

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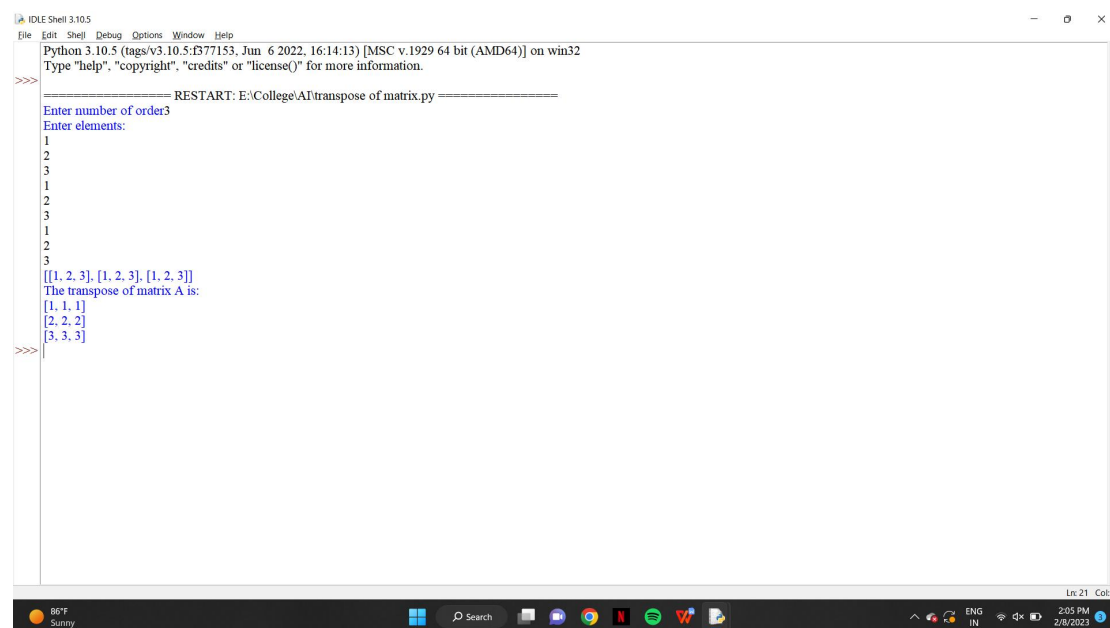Course: CSA1789 Artificial Intelligence

Q) Write a python program to Transpose a Matrix.

Program:

```python
X=[]
n=int(input("Enter number of order"))
print("Enter elements:")
for i in range(n):
    row=[]
    for j in range(n):
        row.append(int(input()))
    X.append(row)
print(X)
transResult = [[0, 0, 0],
               [0, 0, 0],
               [0, 0, 0]]
for a in range(len(X)):
    for b in range(len(X[0])):
        transResult[b][a] = X[a][b]
print("The transpose of matrix A is: ")
for res in transResult:
    print(res)
```

OUTPUT: