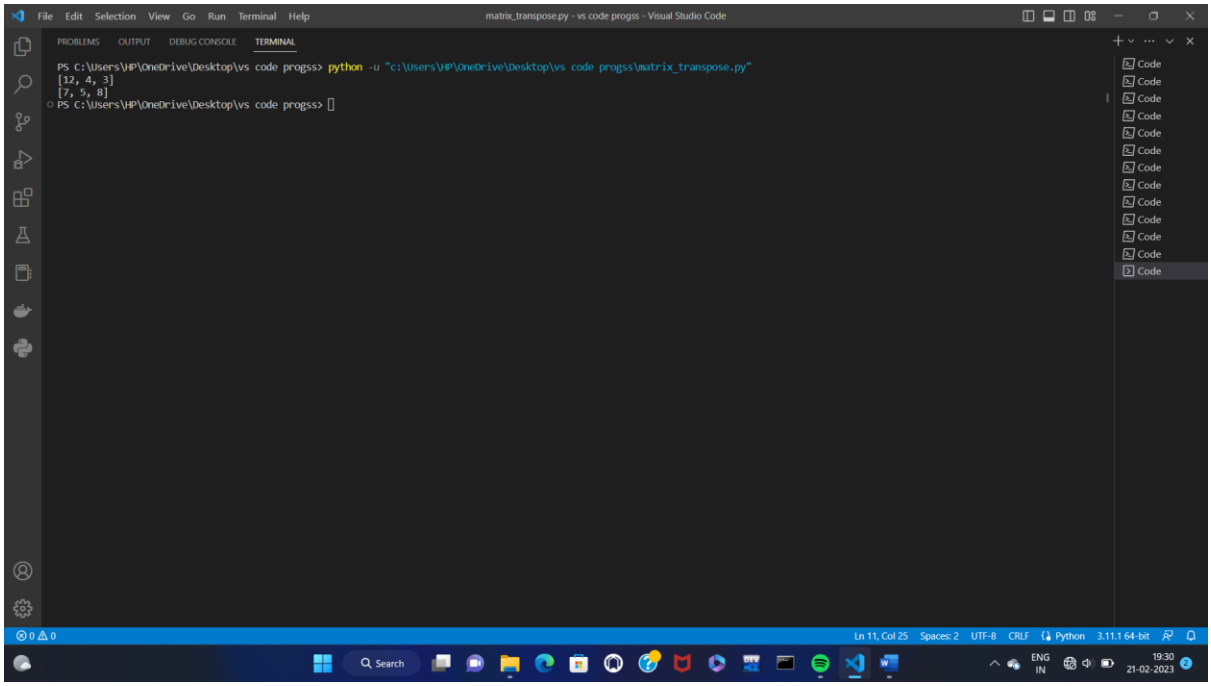```
# Program to transpose a matrix using a
nested loop
X = [[12,7],
 [4 ,5],
 [3 ,8]]
result = [[0,0,0],
 [0,0,0]]
# iterate through rows
for i in range(len(X)):
 # iterate through columns
 for j in range(len(X[0])):
  result[j][i] = X[i][j]
for r in result:
 print(r)
```