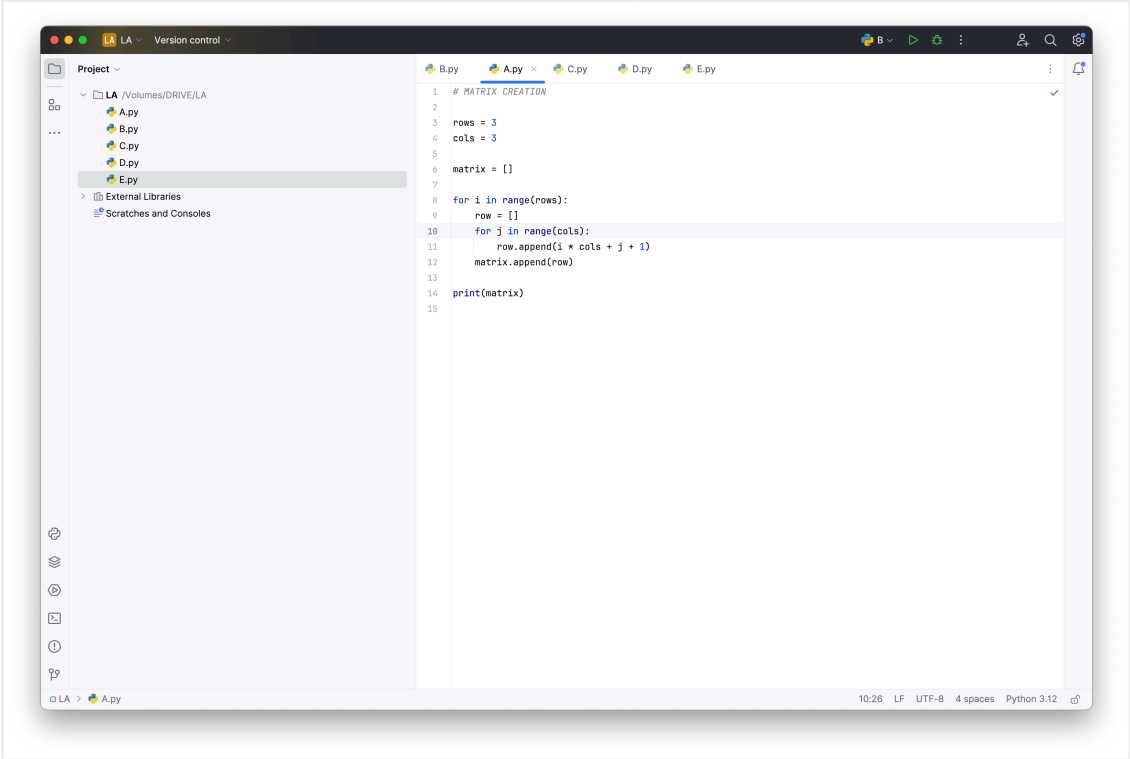
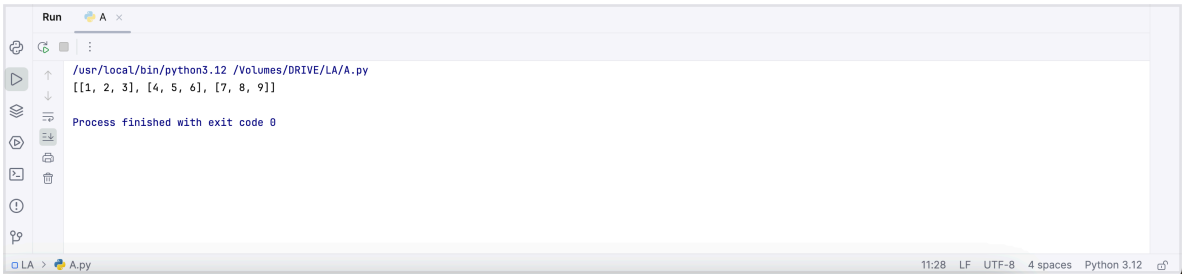
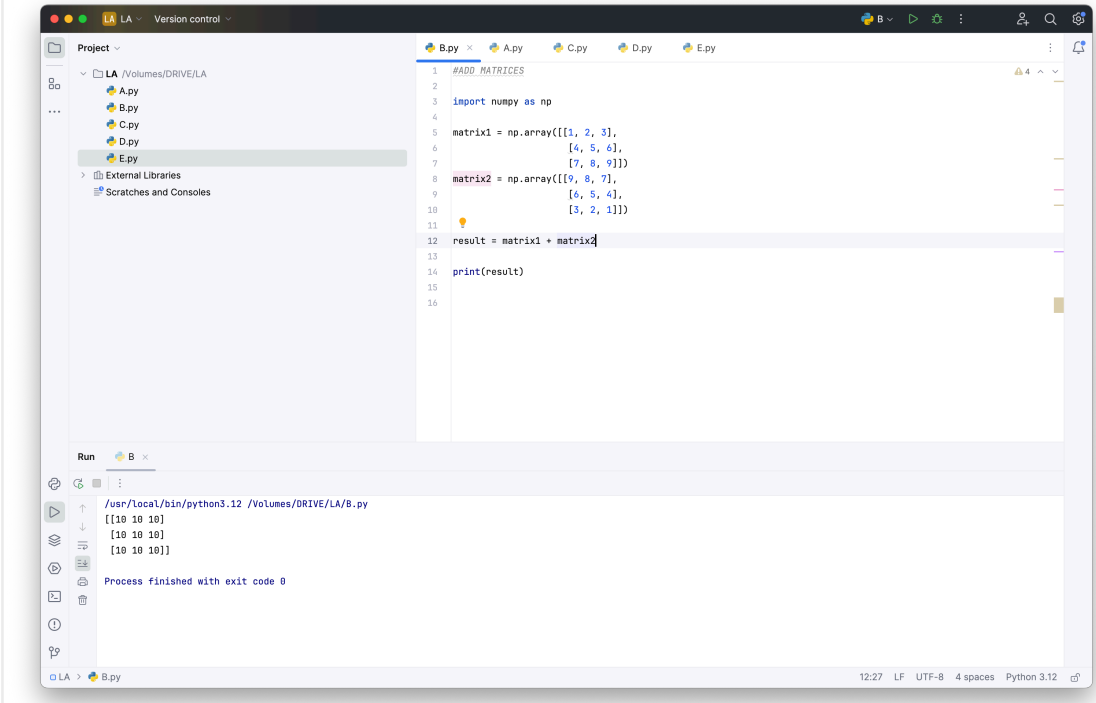
MATHS ASSIGNMENT

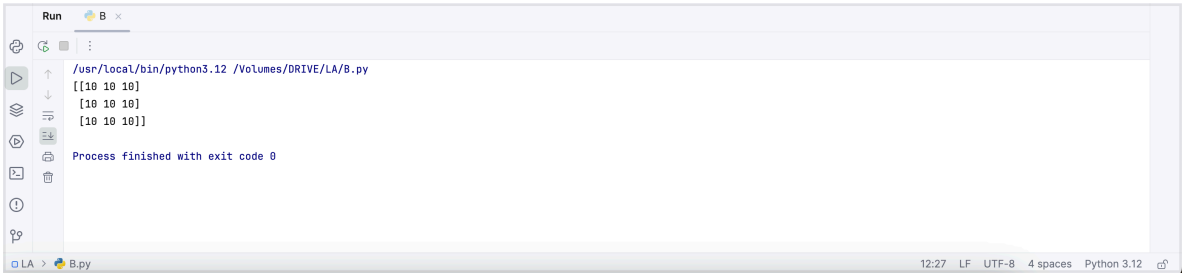
Q1 A



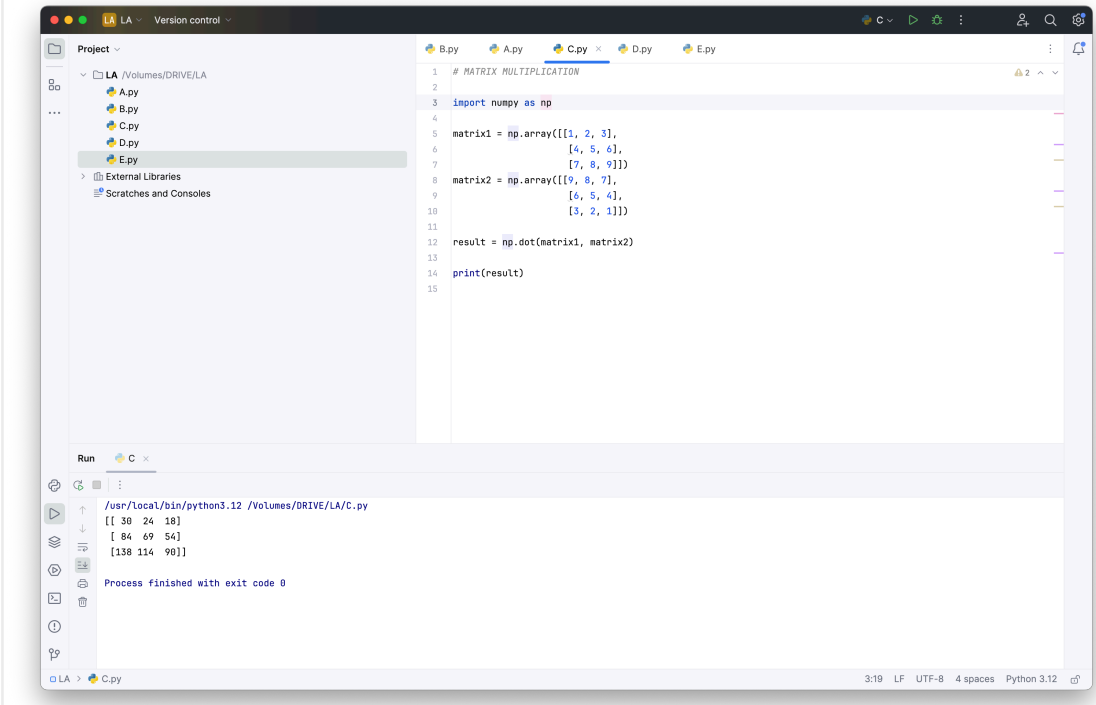


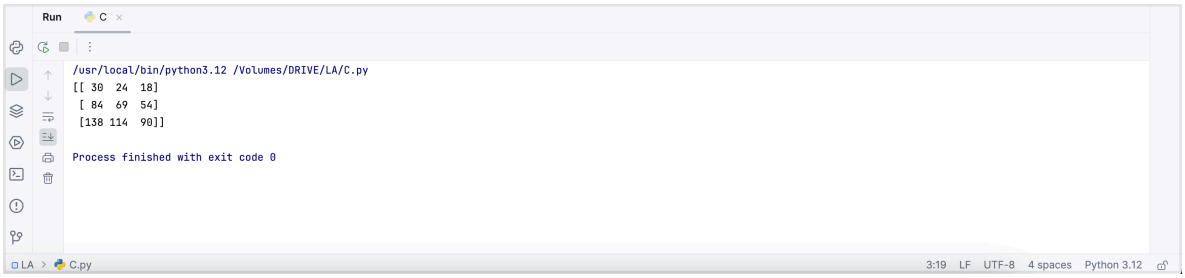
B


LA
Version control
B
Project
LA /Volumes/DRIVE/LA
A.py
B.py
C.py
D.py
E.py
External Libraries
Scratches and Consoles
B.py
A.py
C.py
D.py
E.py
#ADD MATRICES
import numpy as np
matrix1 = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])
matrix2 = np.array([[9, 8, 7],
[6, 5, 4],
[3, 2, 1]])
result = matrix1 + matrix2
print(result)
Run
B
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/B.py
[[10 10 10]
[10 10 10]
[10 10 10]]
Process finished with exit code 0
LA
B.py
12:27
LF
UTF-8
4 spaces
Python 3.12

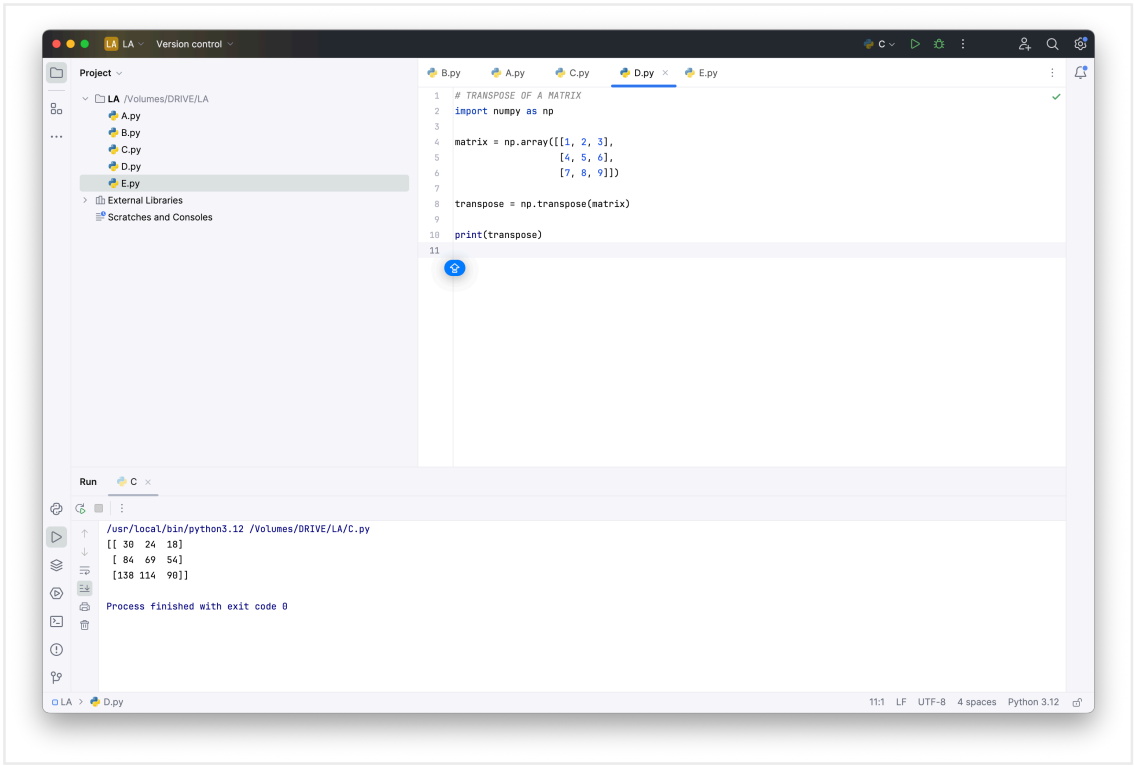

Run
B
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/B.py
[[10 10 10]
[10 10 10]
[10 10 10]]
Process finished with exit code 0
LA
B.py
12:27
LF
UTF-8
4 spaces
Python 3.12

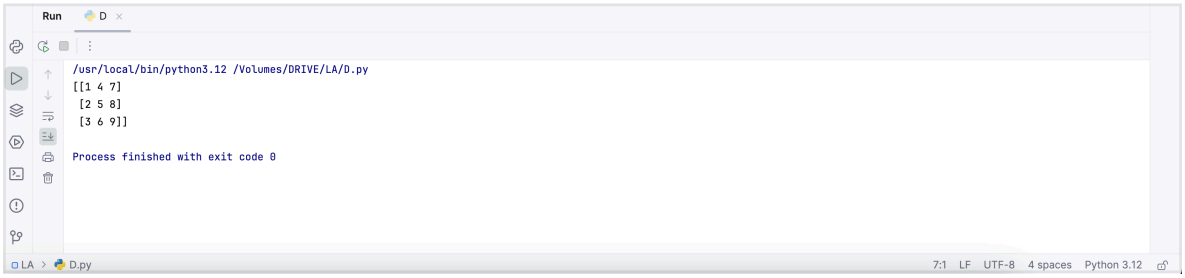
C


LA
Version control
C
Project
LA /Volumes/DRIVE/LA
A.py
B.py
C.py
D.py
E.py
External Libraries
Scratches and Consoles
B.py
A.py
C.py
D.py
E.py
# MATRIX MULTIPLICATION
import numpy as np
matrix1 = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])
matrix2 = np.array([[9, 8, 7],
[6, 5, 4],
[3, 2, 1]])
result = np.dot(matrix1, matrix2)
print(result)
Run
C
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/C.py
[[30 24 18]
[84 69 54]
[138 114 90]]
Process finished with exit code 0
LA
C.py
3:19
LF
UTF-8
4 spaces
Python 3.12

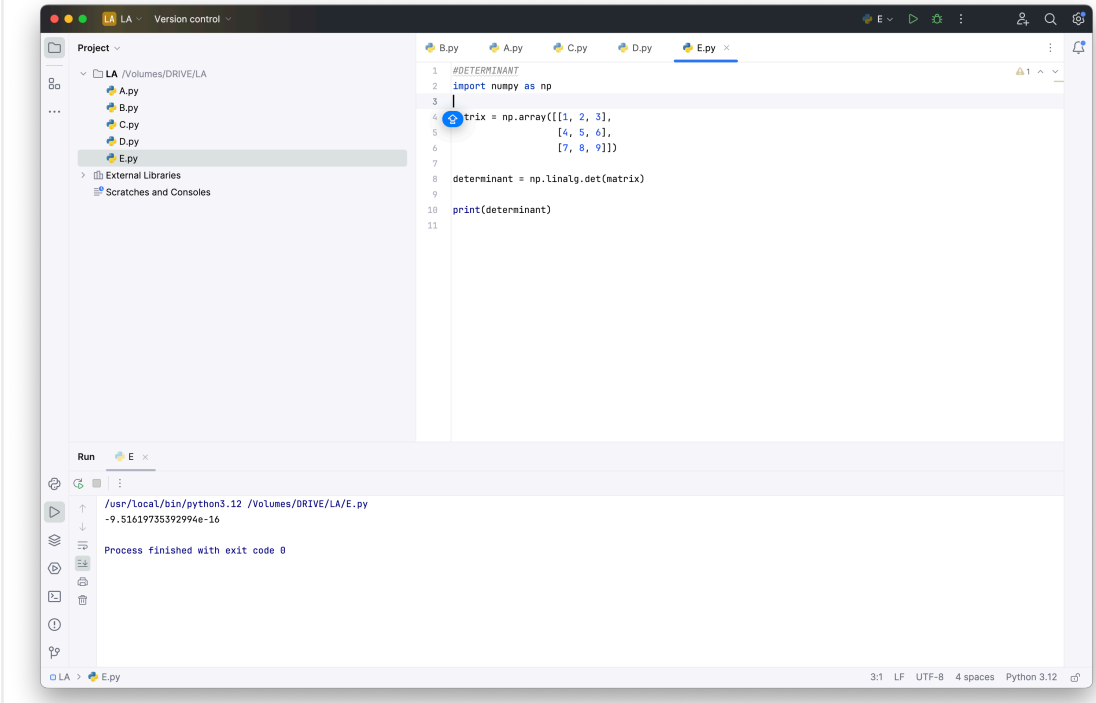

Run
C
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/C.py
[[30 24 18]
 [84 69 54]
 [138 114 90]]
Process finished with exit code 0
LA
C.py
3:19
LF
UTF-8
4 spaces
Python 3.12

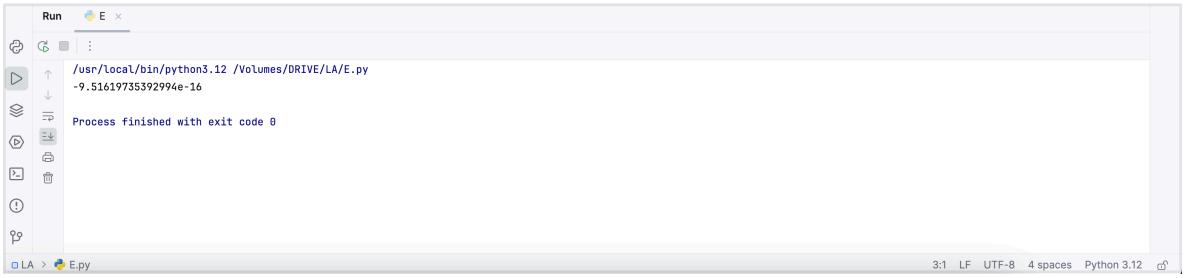
D


LA
Version control
Project
LA /Volumes/DRIVE/LA
A.py
B.py
C.py
D.py
E.py
External Libraries
Scratches and Consoles
B.py
A.py
C.py
D.py
E.py
# TRANSPOSE OF A MATRIX
import numpy as np
matrix = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])
transpose = np.transpose(matrix)
print(transpose)
Run
C
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/C.py
[[30 24 18]
 [84 69 54]
 [138 114 90]]
Process finished with exit code 0
LA
D.py
11:1
LF
UTF-8
4 spaces
Python 3.12


Run
D
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/D.py
[[1 4 7]
 [2 5 8]
 [3 6 9]]
Process finished with exit code 0
LA
D.py
7:1
LF
UTF-8
4 spaces
Python 3.12

E


LA
Version control
Project
LA /Volumes/DRIVE/LA
A.py
B.py
C.py
D.py
E.py
External Libraries
Scratches and Consoles
B.py
A.py
C.py
D.py
E.py
#DETERMINANT
import numpy as np
trix = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])
determinant = np.linalg.det(matrix)
print(determinant)
Run
E
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/E.py
-9.516197353929946-16
Process finished with exit code 0
LA
E.py
3:1
LF
UTF-8
4 spaces
Python 3.12


Run
E
/usr/local/bin/python3.12 /Volumes/DRIVE/LA/E.py
-9.516197353929946-16
Process finished with exit code 0
LA
E.py
3:1
LF
UTF-8
4 spaces
Python 3.12