'''

Experiment No. 4: Write a Python Program to compute following computation on matrices :

a)Addition of two matrices

b)Subtraction of two matrices

c)Multiplication of two matrices

d)Transpose of a matix

'''

```
import numpy

# Initializing matrices
x = numpy.array([[1, 2], [4, 5]])
y = numpy.array([[7, 8], [9, 10]])

# Using add() to add matrices
print("The element-wise addition of matrices is:")
print(numpy.add(x, y))

# Using subtract() to subtract matrices
print("The element-wise subtraction of matrices is:")
print(numpy.subtract(x, y))

# Using dot() to multiply matrices
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```
print("The matrix multiplication (dot product) result is:")

print(numpy.dot(x, y))


# Using "T" to transpose the matrix

print("The transpose of the given matrix x is:")

print(x.T)
```