Name : Shruti Baravkar

Exam seat no :

Roll no : SE265

Batch:B1

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Assignment-3

Experiment No. 9 : 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

x=numpy.array([[5,7],[8,2]])

y=numpy.array([[2,5],[6,9]])

print("The elements wise addition of matrix is:")

print(numpy.add(x,y))

print("The element wise subtraction of matricx is:")

print(numpy.subtract(x,y))

print("The product of matrices is:")

print(numpy.dot(x,y))

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

print(x.T)

#OUTPUT

The elements wise addition of matrix is:

[[ 7 12]

[14 11]]

The element wise subtraction of matricx is:

[[ 3 2]

[ 2 -7]]

The product of matrices is:

[[52 88]

[28 58]]

The transpose of given matrix is:

[[5 8]

[7 2]]