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test9_1.py
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```python
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 matrix is : ")
print(numpy.add(x, y))

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

# using dot() to multiply matrices
print ("The product of matrices is : ")
print (numpy.dot(x,y))

# using "T" to transpose the matrix
print("The transpose of given matrix is : ")
print(x.T)
```

Python 2 | Tab Width: 8 | Ln 1, Col 1 | INS

jspm@jspm-Vostro-3470: ~

```
jspm@jspm-Vostro-3470:~$ python3 pr9.py
The element wise addition of matrix is :
[[ 8 10]
 [13 15]]
The element wise subtraction of matrix is :
[[-6 -6]
 [-5 -5]]
The product of matrices is :
[[25 28]
 [73 82]]
The transpose of given matrix is :
[[1 4]
 [2 5]]
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```