

Spoken Tutorial, IIT Bombay  
<https://spoken-tutorial.org>  
Python 3.4.3  
Basic Matrix Operations - Assignments

Assignment-1

1. Create a two dimensional matrix m3 of shape 2 by 4 with the elements 5, 6, 7, 8, 9, 10, 11, 12.

Hint: Use `arange()` and `reshape()` methods and `asmatrix()` function.

Assignment-2

1. Find out the determinant of the following 3 by 3 matrix.

[[ 2, -3, 1], [ 2, 0, -1], [ 1, 4, 5]]

Assignment-3

1. A and B are two matrix objects of appropriate sizes. Matrix multiplication is done by

- `A * B`
- `multiply(A, B)`
- `mul(A, B)`
- `element_multiply(A,B)`

2. `eig(A) [1]` and `eigvals(A)` are the same.

- True
- False