

1. What is numpy? Explain its attributes
2. Importance of numpy in python
3. How to install numpy
4. Difference between numpy and python list
5. Compare numpy and python list, size and memory speed and performance
6. Array dimension , types and its significance
7. Search data set, read as csv reader, convert to list, and then convert to numpy array
8. Explain with example
 - a. `np.empty()`
 - b. `np.arange()`
 - c. `np.eye()`
 - d. `np.linspace()`
 - e. `np.block()`
 - f. `np.hsplit()`
 - g. `np.vsplit()`
 - h. `np.dsplit()`
 - i. `np.searchsorted()`
 - j. `np.argsort()`
 - k. `np.flatten`, `ravel`, `resize`, `suffel`
9. Np. functions
10. Unary and binary operations and operands
11. Shape and reshape difference
12. Broadcasting
13. Stack and concating
14. Transpose. Swap access, inverse, power, determanant