|  |  |  |
| --- | --- | --- |
| sno | date | exercises |
| 1 | 14/07/25 | Google colab or Jupyter  Implementation of Python Basic Libraries such as Statistics, Math, Numpy and Scipy  a) Usage of methods such as floor(), ceil(), sqrt(), isqrt(), gcd() etc.    b) Usage of attributes of array such as ndim, shape, size, methods such as sum(), mean(), sort(), sin() etc.    c) Usage of methods such as det(), eig() etc.    d) Consider a list datatype(1D) then reshape it into2D, 3D matrix using numpy    e) Generater and matrices using numpy    f) Find the determinant of a matrix using scipy    g) Find eigen value and eigen vector of a matrix using scipy |
|  |  | Implementation of Python Libraries for ML application such as Pandas and Matplotlib.  a) Create a Series using pandas and display    b) Access the index and the values of our Series    c) Compare an array using Numpy with a series using pandas    d) Define Series objects with individual indices    e) Access single value of a series |