



## School of Computer Engineering and Technology (Cybersecurity and Forensics)

### Python Programming Lab Assignment No:08

#### Problem Statement:

Use of Numpy library for multi-dimensional array operation.

#### Aim:

Write a python code to use a Numpy module create an array and check the following:

1. Type of array
2. Axes of array
3. Shape of array
4. Type of elements in array.

#### Objectives:

To learn and implement Functions of Numpy library.

#### Theory:

Numpy Library and its Functions.

arrange(), shape, reshape, size, ndim, eyes, ones, zeros, dtype, diag,

**Platform:** Windows/Ubuntu-Python Editor(jupyter notebook)

**Algorithm/Pseudo code:** Students should write algorithm/Pseudo code for the given problem statement.

**Input:** Creating array using numpy library

**Output:** ndarray is created and shape and data type are displayed.

#### Conclusion:

Studied python numpy library functions on arrays.



## FAQs:

1. What is the difference between Numpy array and List?
2. Explain type and dtype with example.
3. Explain axis in numpy arrays.