# **CCPS 844 Data Mining (Lab 3)**

**Q-1** What is the usage of reshape function of the numpy library?

Explain usage of all parameters of the reshape function with the help of an example.

How have we used the reshape function for Logistic regression of the IRIS dataset?

.reshape is used to give a new shape to an array without changing the data

e.g. np.linspace(0, 3, 1000).reshape(-1, 1)

.reshape in this example extends after linspace generation. The first parameter takes number of row and second takes the number column. Usage of -1 means have numpy figure out the unknown and there can only be one unknown in either the first or second parameter.

Reshape can also be called standalone from using np.reshape(). The first parameter then becomes the array to be reshaped and second parameter the dimensions to be reshaped into.

**Q-2** To make predictions with the linear regression model generated in the file “Linear Regression.ipynb”, generate the test data and make predictions as we did for the logistic regression.

