# Third Year B. Tech (EL & CE)

**Semester: VI Subject:** Data Science for Engineering

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**Roll No: 52 Batch: A2**

# Experiment No: 02

**Name of the Experiment**: **Data Science Fundamentals**

**Performed on: 5/2/2024**

**Submitted on: 5/2/2024**

**Problem Statement:**

**Question - 1**

Write a python program to output a 3 by 3 array of random numbers following normal distribution

stack these arrays vertically

a = np.arrange(10).reshape(2,-1)

b = np.repeat(1, 10).reshape(2,-1)

**Question - 2**

Get the common items between two numpy arrays

a =np.array([1,2,3,2,3,4,3,4,5,6])

b =np.repeat([7,2,10,2,7,4,9,4,9,8])

**Question - 3**

Create a series from list, numpy array and dictionary

Combine many series to make a data frame

**Question - 4**

Create a normalized form of iris's sepallength whose values range exactly between 0 and 1

so that minimum has value 0 and maximum has value 1.

Input:

url = "https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data"

spelllength = np.genfromtxt(url delimiter = '', dtype='float', usecols=[0])











