Data Analytics

Session-2 - Introduction

**Assignment – 2.3**

**1). Introduction**

This assignment will help you to understand the key concepts learnt in this session.

**2). Objective**

This assignment will test your skills on Data Structures in R.

**3). Prerequisite**

Not Applicable

**4). Associated Data Files**

Not Applicable

**5). Problem Statement**

1. Create an m x n matrix with replicate(m, rnorm(n)) with m=10 column vectors of n=10 elements each, constructed with rnorm(n), which creates random normal numbers.

Then we transform it into a dataframe (thus 10 observations of 10 variables) and perform an algebraic operation on each element using a nested for loop: at each iteration, every element referred by the two indexes is incremented by a sinusoidal function, compare the vectorized and non-vectorized form of creating the solution and report the system time differences.

**6). Expected Output**

Not Applicable