Data Analytics

Session 5 – Foundational R Programming - II

**Assignment – 5.3**

**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 Management Functions in R.

**3). Prerequisite**

Not Applicable

**4). Associated Data Files**

Not Applicable

**5). Problem Statement**

class(mtcars)

list(mtcars)

1. Test whether two vectors are exactly equal (element by element).

vec1 = c(rownames(mtcars[1:15,]))

vec1

vec2 = c(rownames(mtcars[11:25,]))

vec2

vec1vec2=identical(vec1,vec2)

vec1vec2

2. Sort the character vector in ascending order and descending order.

vec1 = c(rownames(mtcars[1:15,]))

vec1

vec2 = c(rownames(mtcars[11:25,]))

vec2

vec1=sort(vec1,decreasing = FALSE)

vec1

vec2=sort(vec2,decreasing = FALSE)

vec2

# character vector through sorting ASCENDING order.

vec1=sort(vec1,decreasing = TRUE)

vec1

vec2=sort(vec2,decreasing = TRUE)

vec2

# character vector through sorting DESCENDING order.

3. What is the major difference between str() and paste() show an example.

library(stringr)

# default usage of str()

str\_c("AcadGild Instructor-Led Online Training")

# removing zero length objects

str\_c("AcadGild", "Instructor-Led", "Online", "Training")

# this is works fine

paste("AcadGild", "Instructor-Led", "Online", "Training")

#this is works fine too

paste("AcadGild Instructor-Led Online Training")

#this is weired, The objects NULL and character(0) have zero length,

yet when included inside paste() they are treated as an empty string "".

paste("AcadGild Instructor-Led Online Training", NULL, character(0))

4. Introduce a separator when concatenating the strings.

#changing separator

str\_c("AcadGild", "Instructor-Led", "Online" ,"Training", sep="-")

**6). Expected Output**

Not Applicable