Data Analytics

Session 5 – Foundational R Programming - II

**Assignment – 5.2**

**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**

**1.** Obtain the elements of the union between two character vectors.

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

vec1

vec2 = c(rownames(mtcars[10:32,]))

vec2

vec1vec2=union(vec1,vec2)

vec1vec2

# with union can combine two vectors character in to one.

**2.** Get those elements that are common to both vectors.

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

vec2 = c(rownames(mtcars[10:32,]))

**Ans:**

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

vec1

vec2 = c(rownames(mtcars[10:32,]))

vec2

sort(vec1vec2, decreasing = FALSE,)

# common = brands names while sorting.

**3.** Get the difference of the elements between two character vectors.

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

vec2 = c(rownames(mtcars[10:32,]))

**Ans:**

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

vec1

vec2 = c(rownames(mtcars[10:32,]))

vec2

vec1vec2=intersect(vec1,vec2)

vec1vec2

# same brands in deferent models, while intersect function.

**4.** Test the quality of two character vectors.

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

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

**Ans:**

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

vec1

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

vec2

1. *Method*

result=setdiff(vec1,vec2)

result

1. *Method*

vec1vec2=vec1[!(vec1%in%vec2)]

vec1vec2

# First it checks for all x that are not in y, then it uses that as an index on the original

**6). Expected Output**

Not Applicable