

Session 5 – Data

Management using R

Assignment - 3



Contents

[Introduction](#page3) [2](#page3)



[Objective](#page3) [2](#page3)



[Prerequisites](#page3) [2](#page3)



[Associated Data Files](#page3) [2](#page3)



[Problem Statement](#page3) [2](#page3)



[Expected Output](#page3) [2](#page3)



|  |  |
| --- | --- |
| Copyrights© 2017, AcadGild. All Rights Reserved | 1 |
|  |  |



**Introduction**



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

**Objective**



This assignment will test your skills on Data Management Functions in R.

**Prerequisites**



Not Applicable

**Associated Data Files**



Not Applicable

**Problem Statement**



1. Test whether two vectors are exactly equal (element by element). vec1 = c(rownames(mtcars[1:15,]))

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

**isTRUE(all.equal(vec1,vec2)) # returns true/false**

**identical(vec1,vec2) # returns true/false**

**all.equal(vec1,vec2) # returns number of differences**

1. Sort the character vector in ascending order and descending order. vec1 = c(rownames(mtcars[1:15,]))

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

**sort(vec1) # vec1 in ascending order**

**sort(vec1, decreasing = TRUE) # vec1 in descending order**

**sort(vec2)**

**sort(vec2, decreasing = TRUE)**

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

**str(vec1)**

**#returns the value, class and number of elements**

**#chr [1:15] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout" ...**

**paste(vec1)**

**#returns the value only(or just prints)**

**#[1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive"**

**#[5] "Hornet Sportabout" "Valiant" "Duster 360" "Merc 240D"**

**#[9] "Merc 230" "Merc 280" "Merc 280C" "Merc 450SE"**

**#[13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"**

**mode(str(vec1))**

**mode(paste(vec1))**

**class(str(vec1))**

**class(paste(vec1))**

1. Introduce a separator when concatenating the strings.

**x<-c("a","b","c")**

**y<-c("A","B","C")**

**paste(x,y)**

**paste(x,y,sep = ",")**

**paste(x,y,sep = "-")**

**Expected Output**



Not Applicable

|  |  |
| --- | --- |
| Copyrights© 2017, AcadGild. All Rights Reserved | 2 |
|  |  |