**INTRODUCTION TO R**

**Session 5 – Data Management using R**

**Assignment - 3**

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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,]))

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| --- |
| Ans:  vec1 <- c(rownames(mtcars[1:15,]))  vec2 <- c(rownames(mtcars[11:25,]))  vec1 == vec2  Console:  [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  [12] FALSE FALSE FALSE FALSE |

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

vec1 = c(rownames(mtcars[1:15,])) vec2 = c(rownames(mtcars[11:25,]))

Ans:

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

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

sort(vec1,decreasing = FALSE)

[1] "Cadillac Fleetwood" "Datsun 710" "Duster 360"

[4] "Hornet 4 Drive" "Hornet Sportabout" "Mazda RX4"

[7] "Mazda RX4 Wag" "Merc 230" "Merc 240D"

[10] "Merc 280" "Merc 280C" "Merc 450SE"

[13] "Merc 450SL" "Merc 450SLC" "Valiant"

sort(vec2,decreasing = FALSE) #ascending

[1] "AMC Javelin" "Cadillac Fleetwood" "Camaro Z28"

[4] "Chrysler Imperial" "Dodge Challenger" "Fiat 128"

[7] "Honda Civic" "Lincoln Continental" "Merc 280C"

[10] "Merc 450SE" "Merc 450SL" "Merc 450SLC"

[13] "Pontiac Firebird" "Toyota Corolla" "Toyota Corona"

|  |
| --- |
| sort(vec1,decreasing = TRUE)  [1] "Valiant" "Merc 450SLC" "Merc 450SL"  [4] "Merc 450SE" "Merc 280C" "Merc 280"  [7] "Merc 240D" "Merc 230" "Mazda RX4 Wag"  [10] "Mazda RX4" "Hornet Sportabout" "Hornet 4 Drive"  [13] "Duster 360" "Datsun 710" "Cadillac Fleetwood" |
|  |
| sort(vec2,decreasing = TRUE) #Decsending  [1] "Volvo 142E" "Toyota Corona" "Toyota Corolla"  [4] "Porsche 914-2" "Pontiac Firebird" "Merc 450SLC"  [7] "Merc 450SL" "Merc 450SE" "Merc 280C"  [10] "Merc 280" "Maserati Bora" "Lotus Europa"  [13] "Lincoln Continental" "Honda Civic" "Ford Pantera L"  [16] "Fiat X1-9" "Fiat 128" "Ferrari Dino"  [19] "Dodge Challenger" "Chrysler Imperial" "Camaro Z28"  [22] "Cadillac Fleetwood" "AMC Javelin" |

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

Ans:

Str() will let you the print data type in the data frame. Paste() will print the elements of data frame.

4) Introduce a separator when concatenating the strings.

Ans:

Paste(“This is first class”,”category 1” sep = “-“)

Console:

paste("This is first class","Category 1", sep = "-")

[1] "This is first class-Category 1"