**SESSION 5-ASSIGNMENT -2**

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

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

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

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

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

> union(vec1,vec2)

[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" "Lincoln Continental"

[17] "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla"

[21] "Toyota Corona" "Dodge Challenger" "AMC Javelin" "Camaro Z28"

[25] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2" "Lotus Europa"

[29] "Ford Pantera L" "Ferrari Dino" "Maserati Bora" "Volvo 142E"

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

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

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

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

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

> intersect(vec1,vec2)

[1] "Merc 280" "Merc 280C" "Merc 450SE" "Merc 450SL"

[5] "Merc 450SLC" "Cadillac Fleetwood"

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

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

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

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

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

> setdiff(vec1,vec2)

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

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

[9] "Merc 230"

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

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

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

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

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

> setequal(vec1,vec2)

[1] FALSE