**Assignment\_3.2 - Session 3**

**Q1**. Obtain the elements of the union between two character vectors.

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

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

**Sol 1:**

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

vec1

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

vec2

#Use union() function to obtain the elements between two characters (union)

union(vec1,vec2)

**Q2**. Get those elements that are common to both vectors.

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

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

Sol:

#we use intersect function

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

vec1

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

vec2

#Use intersect() function to obtain the elements common to both vectors (intersection)

intersect(vec1,vec2)

**Q3**: Get the difference of the elements between two character vectors.

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

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

**Sol 3**: #It is the material that is in the first named set, that is not in the second named set.

#Use setdiff() function for the difference between two vectors.

setdiff(vec1,vec2)

setdiff(vec2,vec1)

**Q4**: Test the equality of two character vectors.

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

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

**Sol 4**:

#perform set opearations to check equality of the vectors

is.element(vec1,vec2)

identical(vec1,vec2)

setequal(vec1,vec2)