# ASSIGNMENT 5.2

## 5. Problem Statement

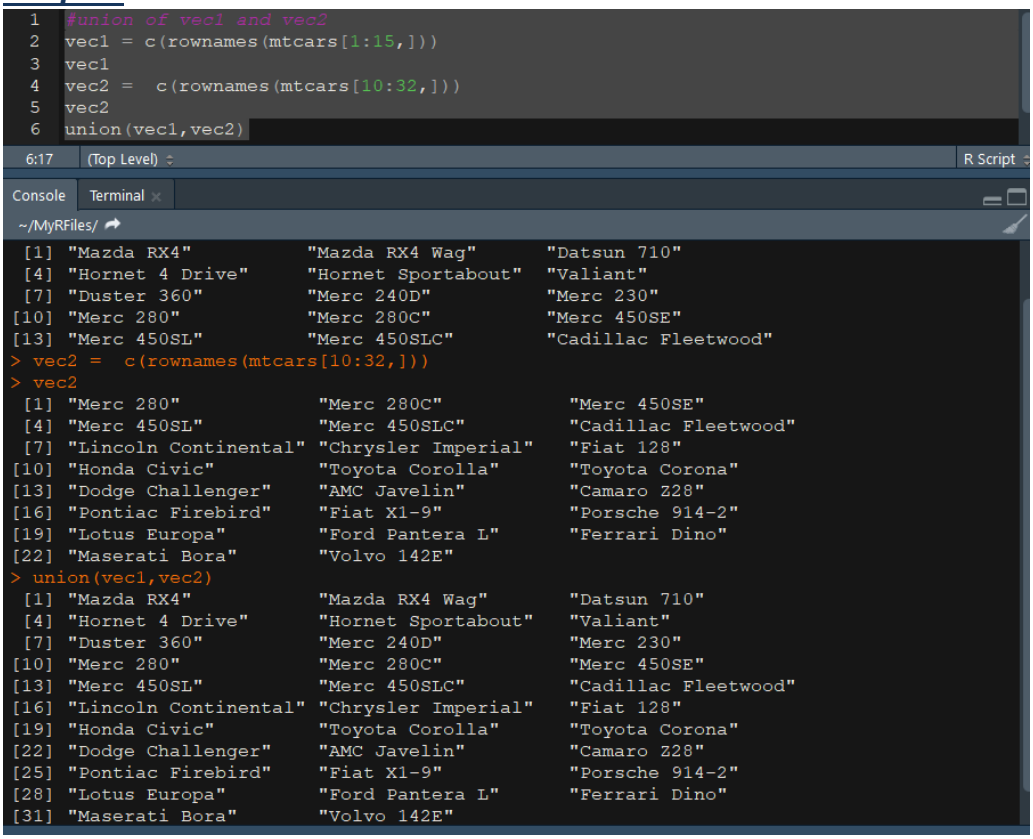
1. obtain the elements of the union between two character vectors.

vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))

**Answer:** Union of two vectors **vec1** and **vec2**

```
vec1 = c(rownames(mtcars[1:15,]))
vec1
vec2 =  c(rownames(mtcars[10:32,]))
vec2
union(vec1,vec2)
```

***Output:***



2. Get those elements that are common to both vectors
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))

**Answer:** ***Using intersect function, we can find the common elements of the vectors***

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 =  c(rownames(mtcars[10:32,]))
intersect(vec1,vec2)
```

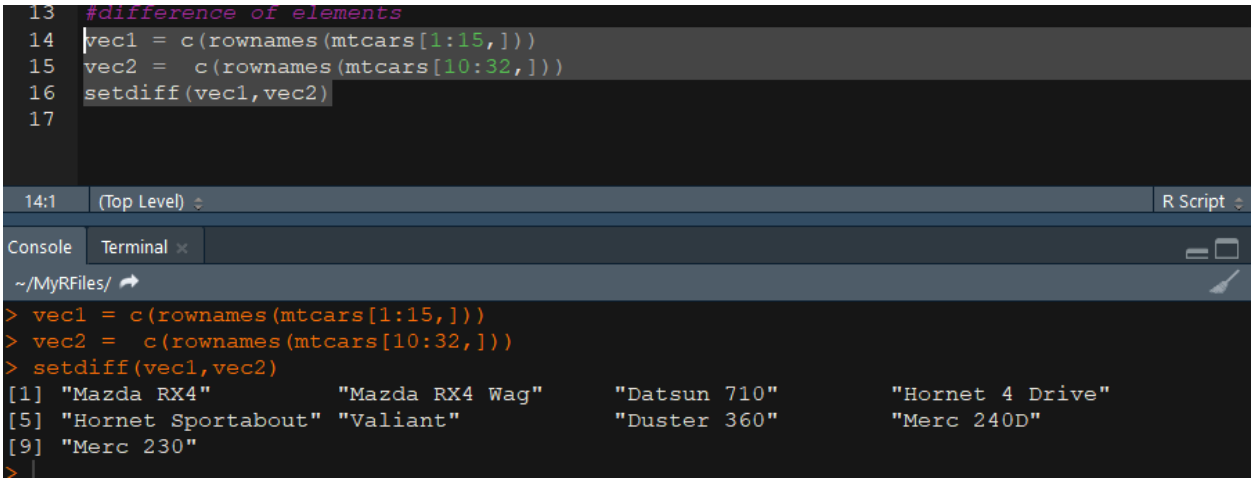
**Output:**

3. Get the difference of the elements between two character vectors.
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))

Answer: *Using the function 'setdiff(x,y)', we can get the difference between the character vectors*

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 =  c(rownames(mtcars[10:32,]))
setdiff(vec1,vec2)
```

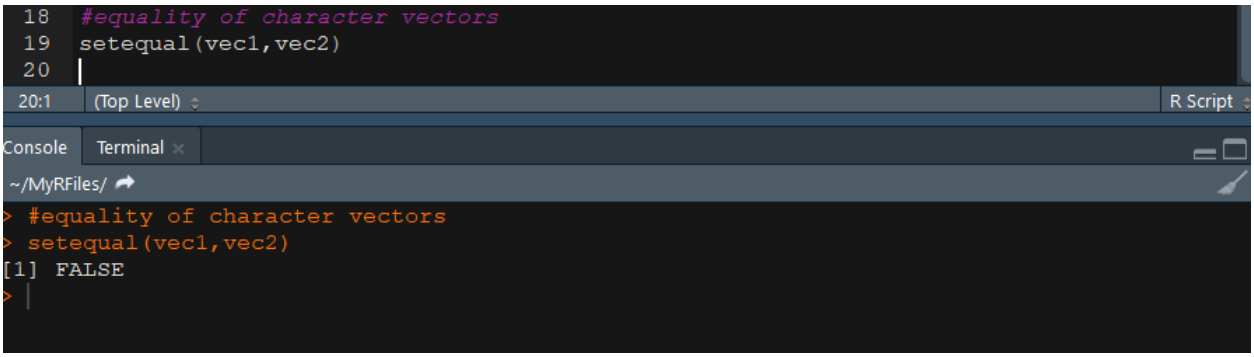
**Output:**



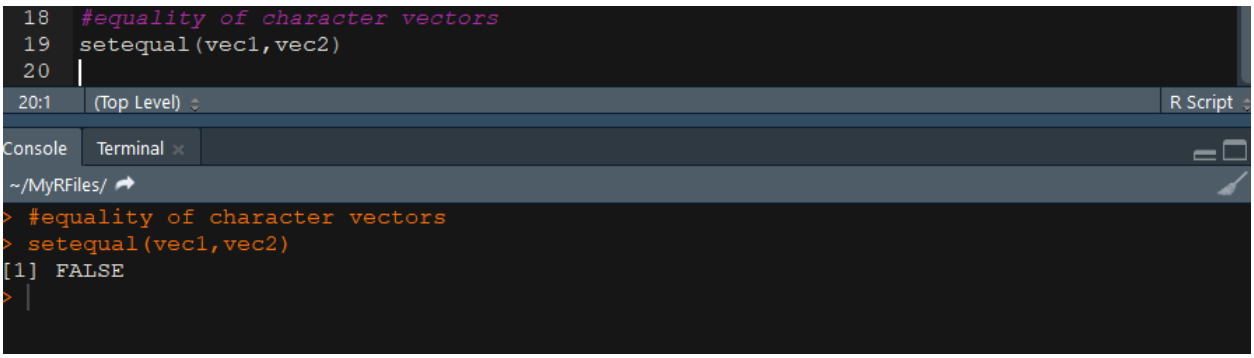
4. Test the equality of two character vectors
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[11:25,]))

**Answer:** *Using setequal(x,y) , we can determine the equality of the character vectors.*

Output:




**Answer:** setequal(x,y) is used to see the equality of the character vectors.



**Note: R script is attached for the problems above the repository.**