

ACADGILD ASSIGNMENT 5.2

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

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

2. Get those elements that are common to both vectors

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

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

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

4. Test the equality of two character vectors

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

ANSWER:

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

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

```
vec12<-union(vec1, vec2) # returns all the elements of vec1 and vec2 without repeating  
common elements
```

```
vec12
```

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

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

```
commonvec12<-vec1 %in% vec2 # gives position of common elements
```

```
vec1[commonvec12] # gives elements
```

```
intersect(vec1,vec2)# alternate way to get intersection of 2 sets of data
```

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

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

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

```
vec1[!vec1%in%vec2]# elements of vec1 which are not present in vec2
```

```
vec2[!vec2%in%vec1]# elements of vec2 which are not present in vec1
```

```
union(vec1[!vec1%in%vec2],vec2[!vec2%in%vec1])#elements which are not common in  
vec1 and vec2
```

#alternate way

```
setdiff(vec1, vec2)# elements of vec1 which are not present in vec2
```

```
setdiff(vec2,vec1)# elements of vec2 which are not present in vec1
```

#4. Test the quality of two character vectors.

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

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

```
is.element(vec1,vec2)
```

```
identical(vec1,vec2)
```

```
setequal(vec1,vec2)
```

```
vec1 %in% vec2
```