# **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,]))
```

## Answer:

```
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,]))
```

#### Answer:

```
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,]))
Answer:
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 equality of two character vectors
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[11:25,]))
Answer:
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[11:25,]))
is.element(vec1,vec2)
TRUE TRUE TRUE TRUE
identical(vec1, vec2)
```

[1] TRUE

[1] TRUE

setequal(vec1,vec2)

#### vec1 %in% vec2

### 

