Session-5-Assignment-2

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# Q1. Obtain the elements of the union between two character vectors.  
vec1 = c(rownames(mtcars[1:15,]))  
vec2 = c(rownames(mtcars[10:32,]))  
uni12 <- union(vec1,vec2)  
print(uni12)

## [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710"   
## [4] "Hornet 4 Drive" "Hornet Sportabout" "Valiant"   
## [7] "Duster 360" "Merc 240D" "Merc 230"   
## [10] "Merc 280" "Merc 280C" "Merc 450SE"   
## [13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"   
## [16] "Lincoln Continental" "Chrysler Imperial" "Fiat 128"   
## [19] "Honda Civic" "Toyota Corolla" "Toyota Corona"   
## [22] "Dodge Challenger" "AMC Javelin" "Camaro Z28"   
## [25] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"   
## [28] "Lotus Europa" "Ford Pantera L" "Ferrari Dino"   
## [31] "Maserati Bora" "Volvo 142E"

# Q2. Get those elements that are common to both vectors.  
vec1 = c(rownames(mtcars[1:15,]))  
vec2 = c(rownames(mtcars[10:32,]))  
comm<- intersect(vec1,vec2)  
print(comm)

## [1] "Merc 280" "Merc 280C" "Merc 450SE"   
## [4] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"

# Q3. Get the difference of the elements between two character vectors.  
vec1 = c(rownames(mtcars[1:15,]))  
vec2 = c(rownames(mtcars[10:32,]))  
diff<- setdiff(vec1,vec2)  
print(diff)

## [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710"   
## [4] "Hornet 4 Drive" "Hornet Sportabout" "Valiant"   
## [7] "Duster 360" "Merc 240D" "Merc 230"

diff1 <- setdiff(vec2,vec1)  
print(diff1)

## [1] "Lincoln Continental" "Chrysler Imperial" "Fiat 128"   
## [4] "Honda Civic" "Toyota Corolla" "Toyota Corona"   
## [7] "Dodge Challenger" "AMC Javelin" "Camaro Z28"   
## [10] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"   
## [13] "Lotus Europa" "Ford Pantera L" "Ferrari Dino"   
## [16] "Maserati Bora" "Volvo 142E"