CT5102: Programing for Data Analytics 2018/19

Assignment 2: Writing a robust function

Write a function **my_table()** in R that will perform a frequency count on string data in a vector. The function should form validation checks (for NA values, and non-character input). Sample output is shown below.

```
Test #1
> set.seed(111)
> v <- 1:10
[1] 1 2 3 4 5 6 7 8 9 10
> my_table(v)
Error in my_table(v) : Error, input must be a character vector
                       Test #2
> set.seed(111)
> v < - c(v, NA)
[1] "F" "M" "F" "F" "F" "F" "F" "F" "F" NA
> my table(v)
Error in my table(v): Error, the input vector has NA element(s)
                       Test #3
> set.seed(111)
> v < - c(v,NA)
[1] "F" "M" "F" "F" "F" "F" "F" "F" "F" NA
> my_table(v,na.rm=T)
F M
9 1
                       Test #4
> set.seed(111)
> my_table(v)
F M
9 1
```