

Assignment 3.4

A. Implement user defined functions within apply function using the mtcars data set and produce column wise summary statistics using apply function and mtcars dataset.

R file apply_function.R and its output screenshot apply function.png attached

```
summary_result <- function(a)
{
  smry <- summary(a)
}

all_names <- function(a)
{
  allnames <- names(a)
}

col_summary <- apply(mtcars, 2, summary_result)

print(col_summary)
```

B. write a program to extract the names of the list

R file listname.R and its output screenshot apply listnames.png attached

```
x <- list("a" = 2.5, "b" = TRUE, "c" = 1:3)

list_names <- names(x)

print(list_names)
```

