**IST687 – Writing functions and doing some initial data analysis**

Explore the mtcars dataset (which is already included in R). Copy the mtcars dataset into a new variable (called it myCars), so that if you mess up, you can start again very easily (by copying mtcars into myCars again).

**Step 1: What is the hp (hp stands for “horse power”)**

1. What is the highest hp?
2. Which car has the highest hp?

**Step 2: Explore mpg (mpg stands for “miles per gallon”)**

1. What is the highest mpg?
2. Which car has the highest mpg?
3. Create a sorted dataframe, based on mpg

**Step 3: Which car has the “best” combination of mpg and hp?**

1. What logic did you use?
2. Which car?

**Step 4: Which car has “best” car combination of mpg and hp, where mpg and hp must be given equal weight?**