# Exploratory Data Analysis in R

This exercise uses file pulse.csv.

## Tasks to be performed:

1. Open the data set “pulse.csv” and save it to a variable called “pulse” using read\_csv() command.
   1. HINT: may need to import a library.
2. Identify the structure of the data and summarise the data.
   1. HINT: five functions can be used for this.
3. Convert any columns that R has parsed incorrectly.
   1. HINT: four columns need to be altered.
4. Consider the weight field in the data set:
   1. find an average for this value.
   2. comment on whether this average is robust.
   3. view the weight field as a distribution.
5. For PULSE 1 (resting heart rate):
   1. find out the mean and save it to a variable called “mean\_pulse1”.
   2. compare the mean to the median and comment on it.
6. Analyse physical activity variable:
   1. there are erroneous value(s) in the activity field. Find them and remove all occurrences.
   2. what was the most common physical activity level and what percentage of the sample gave that response?
7. Compare the mean weights across the activity levels. Comment.
   1. View the distributions of weights across the activity levels.
8. Compare the means for pulse 2 according to whether they smoke or not.