**IST 687 PREP EXERCISE 01**

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**Prep Exercise No: 01**

**Date Due: 28th August 2019**

4. The following should be coded using RStudio. Use the source code pane, and then execute the lines of code, to see the results in the console. Remember to use the required comment block at the top and to comment your lines of code. Be sure you know where you are saving your file. You’ll need to use this file for your homework this week (save the file as a .R file).

a. Define the following vectors, which represent the weight and height of people on a particular team (in inches and pounds):

**height <- c(59, 60, 61, 58, 67, 72, 70)**

**weight <- c(150, 140, 180, 220, 160, 140,130)**

b. Define a variable:

**a <- 150**

5. Calculating statistics using R and fill in the answers where asked to do so:

a. Compute the average height and average weight with the mean() function

i. Average height: **63.85714**

ii. Average weight: **160**

b. Show the number of observations in height with the length() function: **7**

c. Show the number of observations in weight with the length() function: **7**

d. Calculate the sum of the heights with the sum() function: **447**

e. Calculate the sum of the weights with the sum() function

i. Sum of all weights: **1120**

f. Compute the average height by combining results from B and D

i. Average height: **63.85714**

g. Recompute the average weight by combining results from C and E

i. Average weight: **160**

6. Paste screen captures of your source code pane and your global environment pane below.

