**ASSIGNMENT\_2.1**

1. What are the different methods to call a function in R?

**Answer:** There are 3 ways. We will demonstrate these 4 ways by using the mean function

* Specifying the formal arguments in the same order in which they are declared. In this case, each argument need not be named explicitly when calling a function

Example: The mean function has 3 arguments, x, trim and na.rm which can be specified in the same order.

mean(c(1,2,3), 0.25, FALSE)

You may also specify only the 1st n parameters provided the rest have default values

Example: The mean function has 3 arguments, x, trim and na.rm. The trim has a default value of 0 and the na.rm parameter has a default value of FALSE.

mean(c(1,2,3))

* Specifying the formal arguments in any order but naming the parameters explicitly while calling

Example: The mean function has 3 arguments x, trim and na.rm. You can pass them in any order provided you name them.

mean(x = c(1,2,3), na.rm = FALSE, trim = 0.20)

You may also ignore some parameters provided the ignored parameters have default values

Example: The mean function has 3 arguments, x, trim and na.rm. The trim has a default value of 0 and the na.rm parameter has a default value of FALSE.

mean(x = c(1,2,3), na.rm = FALSE)

* Using a mix of the previous two approaches

Example: The mean function has 3 arguments x, trim and na.rm. The call

mean(na.rm = FALSE, c(1,2,3), 0.25)

implies that the na.rm parameter takes FALSE as its value but the remaining parameters are matched by order. So x will have a value of c(1,2,3) and trim will have a value of 0

2. The lazy evaluation of a function means, the argument is evaluated only if it is evaluated only if it is used inside the body of the function. Say True or False.

**Answer:** True

3. State True or False:

a. Insights driven from descriptive analytics is not meaningful.

**Answer:** False

b. The number of values in each Elements of a list, should be equal.

**Answer:** False

c. The datasets are not stored in memory of the computer using R.

**Answer:** False

d. Data frames and matrices are two dimensional however the array is multidimensional.

**Answer:** True