ACADGILD

SESSION 1: INTRODUCTION

Assignment 2

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1. Problem Statement

1. How many ways are there to call a function in R?

2. Is the below statement true?
   - 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.

3. Mention true or false for below statements:

a. Insights driven from descriptive analytics is not meaningful.
b. The number of values in each Elements of a list, should be equal.
c. The datasets are not stored in memory of the computer using R.
d. Data frames and matrices are two dimensional however the array is multidimensional.

2. Solution

1. **Different ways are there to call a function in R**

   a. **call(name, ...)**

   where,
   name: is a a non-empty character string naming the function to be called
   … stands for arguments to be part of the call

   `call` returns an unevaluated function call, that is, an unevaluated expression which consists of the named function applied to the given. Although the call is unevaluated, the arguments `...` are evaluated.

   b. **do.call**

   `do.call` constructs and executes a function call from a name or a function and a list of arguments to be passed to it.

   c. **Recall**

   `Recall` is used as a placeholder for the name of the function in which it is called. It allows the definition of recursive functions which still work after being renamed

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.- **TRUE**

3.

a. Insights driven from descriptive analytics is not meaningful.- **FALSE**
b. The number of values in each Elements of a list, should be equal.- **FALSE**
c. The datasets are not stored in memory of the computer using R.**-TRUE**
d. Data frames and matrices are two dimensional however the array is multidimensional. **- TRUE**