Assignment 2 Coercion, factor, accessing data

Due date: June 12, 11:59pm

Purpose:
In this assignment, you will have the opportunity to practice R commands and functions related to coercion. You will create factors for data frames. You will also practice different ways to access data.

Tasks: Please write an R script that performs the following operations in the order listed. **At the beginning of each task, write a comment marking the task number.**

Name the file as: lab2-<your last name>.R

1. Create a vector with 10 numeric values using the colon operator. Coerce the numeric data to integer. Check the output and data type both before and after the coercion.

2. Create a vector with 100 numeric values starting from 10, with each value equal to the previous value +8. Check output.

3. Create a vector with at least 50 data elements repeating 6 different words of your choice. Check output.

4. Create a matrix with 5 rows and 4 columns. Coerce the matrix to data frame. Check the output and data type both before and after the coercion.

5. Create a data frame with 3 columns and 20 rows. The first column should contain 4 different values from 1 to 4. Check output. Define the first column/variable as a factor with 4 levels. Check output. Create labels for each level of the factor. Check output.

6. Export the data frame your created in task 5 to a txt file titled “export.txt”. Import “export.txt” to a data frame using the R built-in function.

7. Export the data frame your created in task 5 to a csv file titled “export.csv”. Import “export.csv” to a data frame using the R built-in function.

Submission:
Submit your assignment by uploading the actual R script itself to ELMS via the submission link.