Lab 2

Instructions

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Overview

These are steps found in the E-book at the end of Chapter 2, but customized. I'm including an instruction file here because I find it's easier to work on an assignment using a separate instruction file than trying to navigate back and forth in the E-book.

Steps

1. Create a new script in R studio by selecting File->New File->R Script and save it with the name of ***lastname_lab2.R,*** substituting ***lastname*** with your last name.
2. Insert a comment at the top of the script with your name.
3. Create a vector named **Ones** that contains the numbers from 1 to 5.
4. In this script create a vector named **Twos** that contains the numbers from 2 to 10 counting by 2 like this:

```
Twos <- c(seq(from = 2, to = 10, by = 2))
```

5. Create three more vectors, named **Threes**, **Fours**, and **Fives.** Vector **Threes** should count by threes and include 5 values. Vector **Fours** should count by fours and contain five numbers**.** Vector **Fives** should count by fives and contain five numbers.
6. Check the values for your vectors by looking in the environment pane or by typing the name of each of your vectors directly in your script and displaying it in the console below the source pane.
7. Create a data frame named **times_table** that combines your 5 vectors. Include a name for each column using this naming convention replacing Initials with your initials.
    a. ***Initials***_One
    b. ***Initials***_Two
    c. ***Initials***_Three
    d. ***Initials***_Four
    e. ***Initials***_Five
8. Create another vector named **Sixes**. This vector should contain 5 values beginning at 6 and counting by 6.
9. Use the rbind() function to add **Sixes** to your **times_table** data frame. Make sure you have a name for the new column that follows the naming convention in step 6.
10. Use the cbind() function to add an additional column to your **times_table** data frame using the Sixes vector, making sure to follow the column naming convention from step 7 .
11. Compose 4 separate R commands that look for the following in your times_table data frame.
    a. One command that looks for row 2 using the data frame index.
    b. One command that looks for rows 2, 3, and 4 using the data frame index.
    c. One command that looks for ***Initials***_*Threes* by it's column name.
    d. One command that looks for all rows in the data frame but only the first 3 columns.

How it's graded:

Instruction	Points Possible

File is named according to step 1 and a comment is inserted at the top of the script.	5
Vectors Ones, Twos, Threes, Fours, Fives, created as shown in steps 2-5.	10
Data Frame created and columns are named correctly as indicated in step 7.	15
Row added to data frame using rbind after data frame is created.	10
Column added to data frame using cbind after data frame is created.	10
4 separate R commands coded properly @ 2.5 points each.	10

When you are finished creating your script submit it on eCampus for grading.

Submissions

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Activity Details

Task: Submit to complete this assignment