

Please submit your annotated R code in a file titled TA03.R, along with the text file requested below.

This Team Assignment requires predictions for the value of a response variable based on the value of a seven explanatory variables. For this assignment, you should use a linear model to make your predictions. It is fine to use transformations and variable selection, provided your predictions come from a linear model.

For this problem, once you have your predictions, put them into the vector `predvect`. (Only the predictions, not the x values.) Execute the code

```
write.table(predvect, file = "TA03preds.csv", row.names=F, col.names=F, sep=",")
```

This should generate a CSV file `TA03preds.csv` that will correctly format your predictions for review. (Open in Excel – you should see the first column (no header) filled with your predictions.)

For this assignment, you will submit your R code. Your code should be neatly organized with comments to provide documentation. You should not only include the code used to make your predictions, but also include a brief statement describing how you arrived at your choice. The code should be included in a single R file, labeled `TA03.R`.

1. This problem requires the data contained in two files, `TA03train.csv` and `TA03predict.csv`. The objective is to predict the y -value based on the given values of x_1, \dots, x_7 . Use the data in `TA03train.csv` to develop a linear model, then predict the y -values corresponding to the x -values contained in `TA03predict.csv`. Export your predictions to the file named `TA03preds.csv`.

When you are finished, upload the files `TA03.R` and `TA03preds.csv` into the Assignments in Collab. (As usual, one set of submissions per team.)