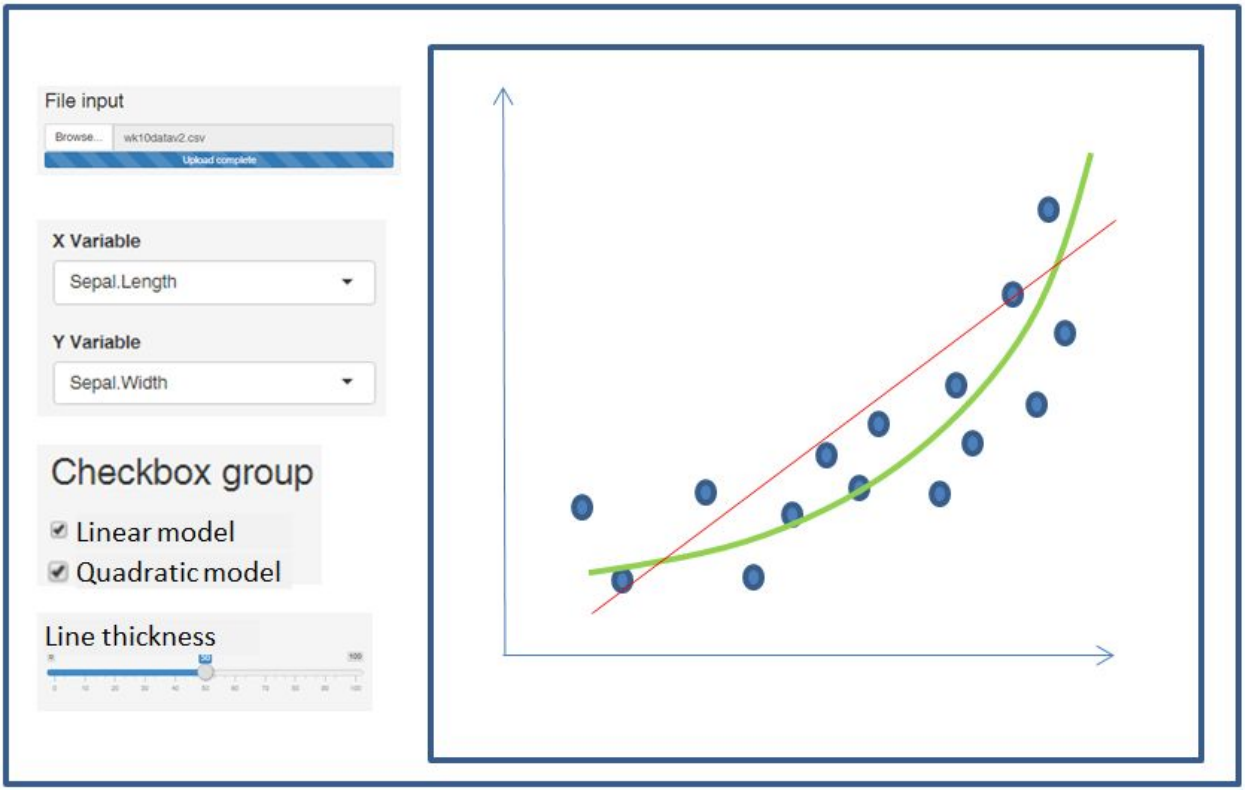
Assignment 5

Your task (to be completed as a group assignment) is to accomplish the following:

1. Read a csv file (See File Input in http://shiny.rstudio.com/gallery/widget-gallery.html for code) using the File Input widget
2. Choose the X and Y variables using the selectInput widget (See code in http://shiny.rstudio.com/gallery/kmeans-example.html) . This should display an XY plot
3. Implement a CheckBox widget (See http://shiny.rstudio.com/gallery/widget-gallery.html for code) that allows you to display one or both fit lines depending on what is checked.
4. Lastly, implement the slider widget to change line width

All the widgets need to be reactive



How to submit your assignment

1. You need to submit two R files (server.R and UI.R) to Blackboard to the Assignment 05 link.
2. The programs should be commented well enough so that the TA or I should not have to struggle with understanding variable names and codes and what the program does.
3. The grading rubric is shown below.

Rubric for Grading the Programming Assignment

	Unsatisfactory	Satisfactory	Good	Excellent
Delivery	• Completed less than 70% of the requirements. • Not delivered on time or not in correct format (Blackboard or git)	• Completed between 70-80% of the requirements. • Delivered on time, and in correct format (Blackboard or git)	• Completed between 80-90% of the requirements. • Delivered on time, and in correct format (Blackboard or git)	• Completed between 90-100% of the requirements. • Delivered on time, and in correct format (Blackboard or git)
Coding Standards	• No name, date, or assignment title included • Poor use of white space (indentation, blank lines). • Disorganized and messy • Poor use of variables (many global variables, ambiguous naming).	• Includes name, date, and assignment title. • White space makes program fairly easy to read. • Organized work. • Good use of variables (few global variables, unambiguous naming).	• Includes name, date, and assignment title. • Good use of white space. • Organized work. • Good use of variables (no global variables, unambiguous naming)	• Includes name, date, and assignment title. • Excellent use of white space. • Creatively organized work. • Excellent use of variables (no global variables, unambiguous naming).
Documentation	• No documentation included.	• Basic documentation has been completed including descriptions of all variables. • Purpose is noted for each function.	• Clearly documented including descriptions of all variables. • Specific purpose is noted for each function and control structure.	• Clearly and effectively documented including descriptions of all variables. • Specific purpose is noted for each function, control structure, input requirements, and output results.
Runtime	• Does not execute due to errors. • User prompts are misleading or non-existent. • No testing has been completed.	• Executes without errors. • User prompts contain little information, poor design. • Some testing has been completed.	• Executes without errors. • User prompts are understandable, minimum use of symbols or spacing in output. • Thorough testing has been completed	• Executes without errors excellent user prompts, good use of symbols, spacing in output. • Thorough and organized testing has been completed and output from test cases is included.
Efficiency	• A difficult and inefficient solution.	• A logical solution that is easy to follow but it is not the most efficient.	• Solution is efficient and easy to follow (i.e. no confusing tricks).	• Solution is efficient, easy to understand, and maintain.