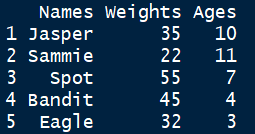
You will need R Studio to do these exercises. It can be found on the Alber's VDI or you can download it for free. The way this assignment will work is I will instruct you to do the some of the same problems from previous labs except now in R. I will duplicate the instructions here. There will also be problems that are brand new.

1. Create two variables: x and y. Save the string "100" into x. Save the number 100 into y. Cast x as an int and save it as a variable called z. Now save the sum of y and z into a variable called ans. Print ans.
2. Create a variable called ans and into it save the solution to 12 times 5 minus 3 divided by 2. Be sure you write in exactly that order. Print ans.
3. Create a FOR loop that prints the numbers 6 through 20, but only prints every OTHER number.  You will need to a bit of googling for this. You will need to use the "next" keyword to skip every other number.
4. Create a vector called friends that holds the strings: Monica, Joey, Chandler. Now print the element in the vector that says Joey using the index of the vector. Now create a variable called married that will concatenate indexed items from the vector to create the string "Monica and Chandler". Now print married.
5. Create a vector called to20 that goes from 1 to 20 (use the range notation). Now create a variable called end that goes from 40 to 50 (use the range notation). Now create a variable called to50 that combines to20, then the number 21 to 30 and then add thes end variable at the end. Now print the variable to50.  It should output the numbers 1 through 30 and then 40 through 50, skipping 31-39.
6. Create a dataframe that looks like the one pictured below. I would suggest creating 3 vectors and then using them to create the dataframe.  
   
7. Create a list that holds these numbers: 5, 19, 3, 50, 13, 22. Be sure they are in that order. Now you will create a FOR loop that will go through the list. On each iteration it will test for 4 different things (if/else if/else). First it will test if the number is greater than 30. If it is, print the string "**(the number) is greater than 30**". Now it will test if the number is greater than 20. If it is, print the string "**(the number) is greater than 20**". Now it will test if the number is greater than 10. If it is, print the string "**(the number) is greater than 10**". Finally, it will print anything else as "**(the number) is less than 10**".
8. The goal of the final question in this assignment is to read in the CSV file SalesJan2009.csv. Then you will filter it into a dataframe for only rows that have United States in the Country column. Once you have that new dataframe, you will filter it again for only results that have a Payment\_Type of Visa. That will give you your final dataframe. Now you will write that dataframe to a new CSV file called "VisaUS.csv".

Rubric