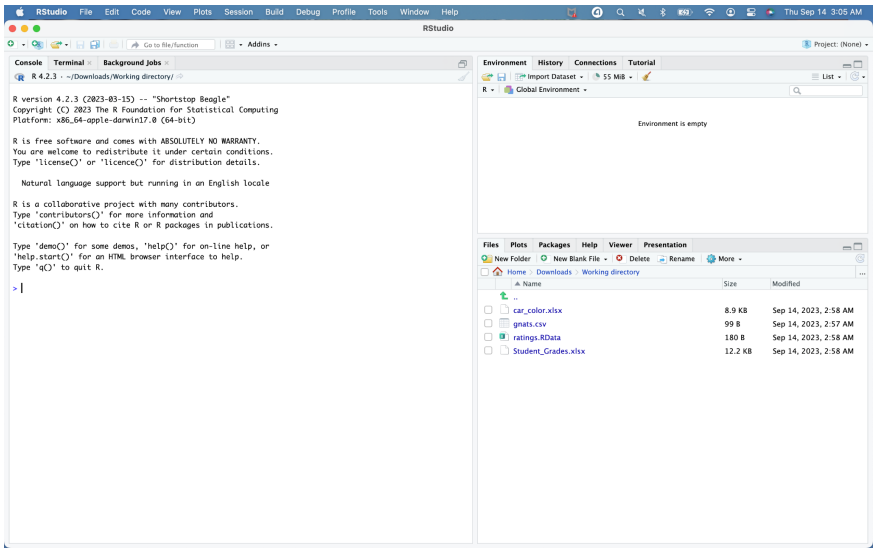
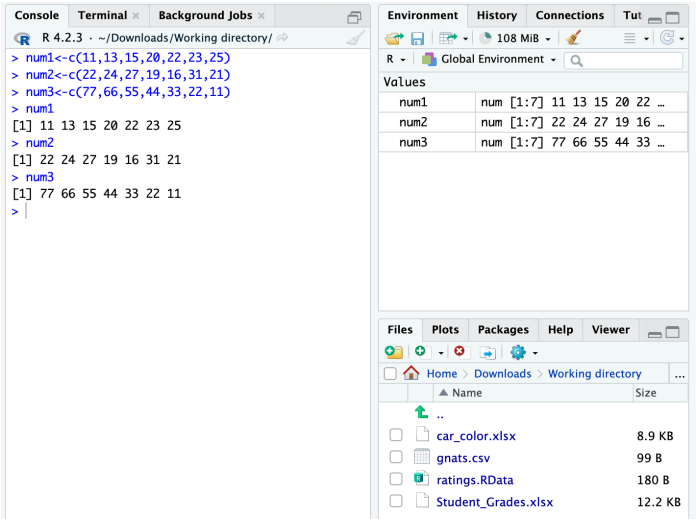
Inputting and Editing DATA (MOL2)

1. Choosing a Default Working Directory:
    a. Download all the files for this Assignment into a folder on your computer you will create. Give it a name and choose this folder as your Default Working Directory. Putting all the files you will use in R into one folder will make it easy to save and find your data files.
    b. Once you have created/chosen a file, then go into R Studio and choose it as your Default Working Directory as seen in the PowerPoint (or any method that you may have already learned – there are several ways to create a Default Working Directory in R Studio). c. Close R Studio.
    d. Open R Studio, and in the lower right pane, select Files and take a screen shot of the directory you have chosen. Copy and paste this screen shot here (1 pt):
    Results:



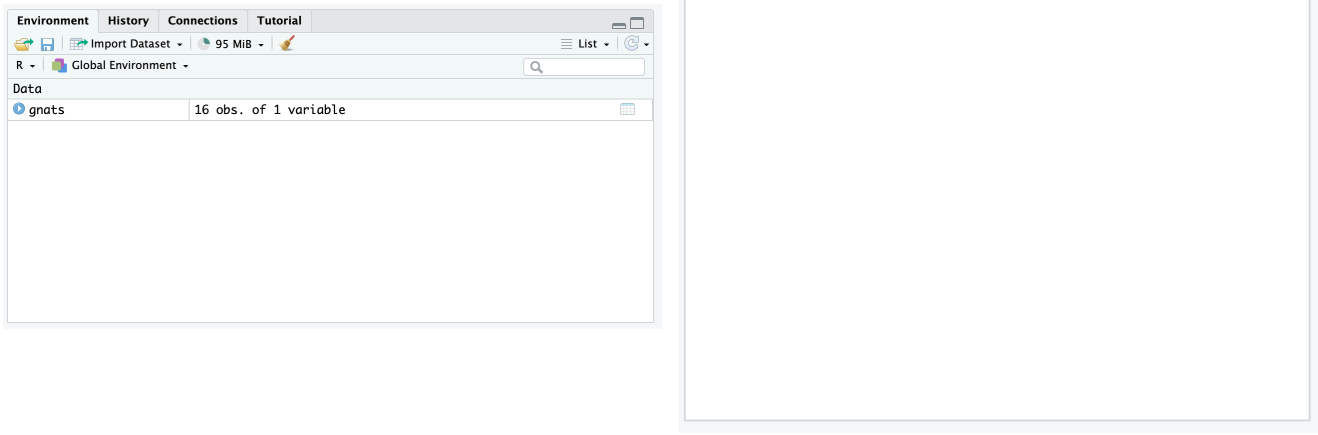
2. Input the following DATA as a vector:
    a. Name the following DATA num1 and input as a vector in R Studio:
    (11,13,15,20,22,23,25)
    b. Name the following DATA num2 and input as a vector in R Studio:
    (22,24,27,19,16,31,21)
    c. Name the following DATA num3 and input as a vector in R Studio:
    (77,66,55,44,33,22,11)
    d. View all three DATA sets.
    e. Copy and paste your commands and results in R Studio Console here (2pt):
    Results:



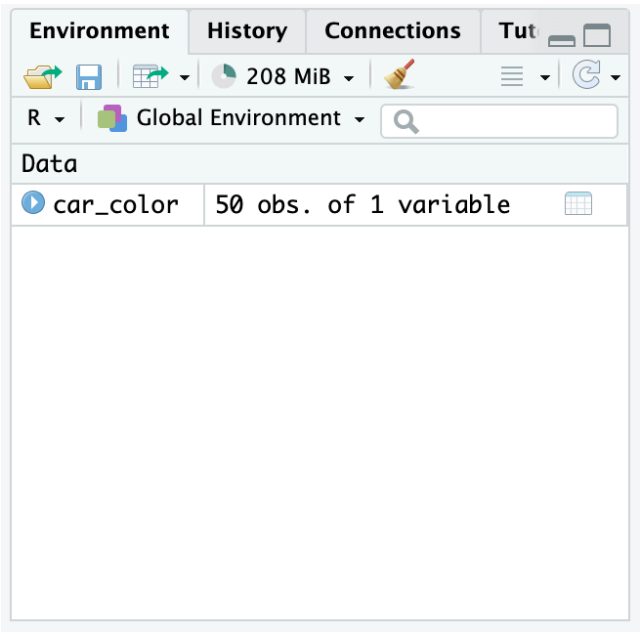
3. Input the following CSV file into R that has the variable name in first row (heading): gnats.csv

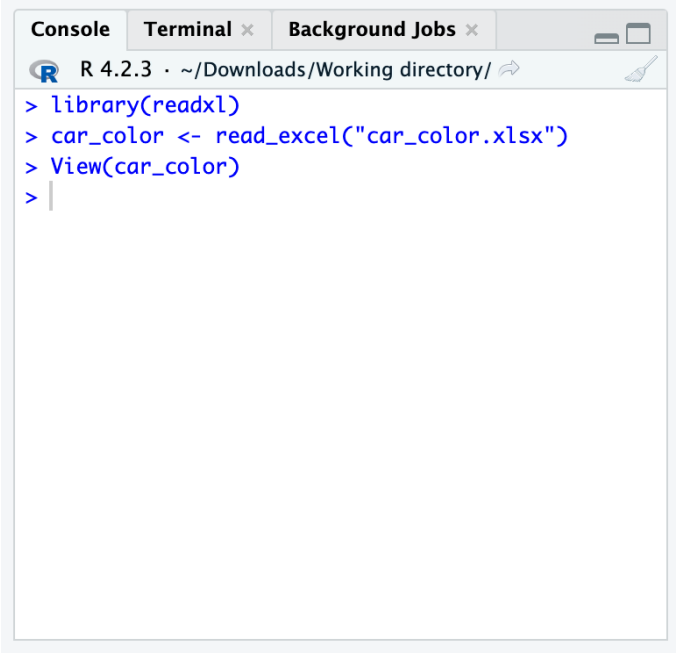
Take a screen shot of the Global Environment and console in R (1 pt):

Results:

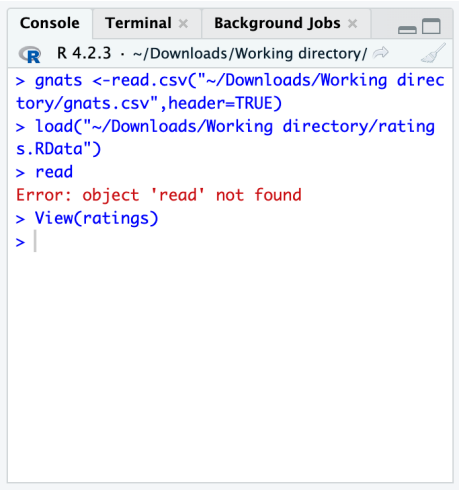


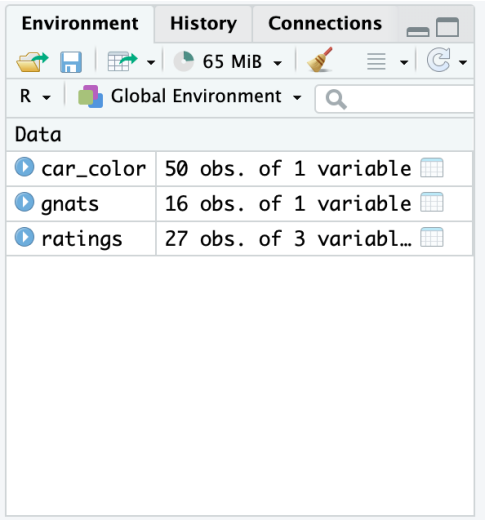
4. Input the following .xlsx file into R that has the variable name in first row (heading):
car_color.xlsx
Take a screen shot of the Global Environment and console in R (1 pt):
Results:





5. Input the following .Rmd file into R that has the variable name in first row (heading)) then use View to view file: ratings.RData
Take a screen shot of the Global Environment and console in R (1 pt):
Results:

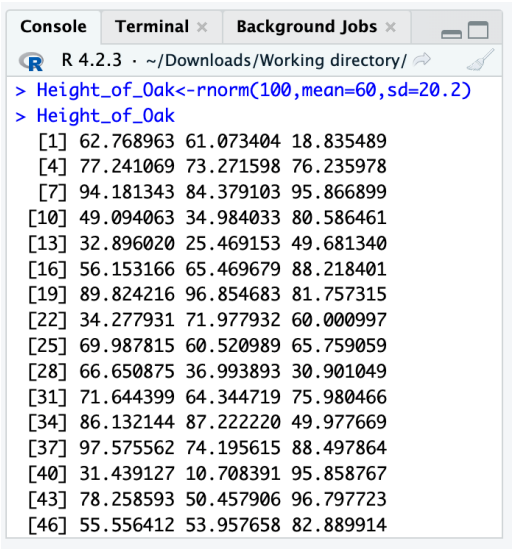


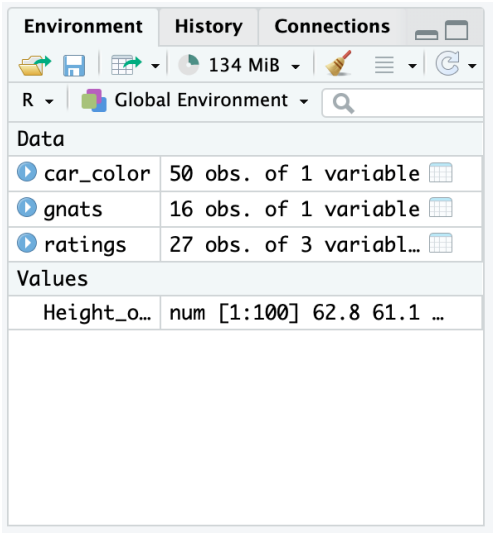


6. Simulate a sample of 100 from a Normal Distribution for the height of an oak tree with a mean of 60 feet and a standard deviation of 20.2 ft. Give the name of the column vector Height_of_Oak.

Take a screen shot of the Global Environment and console in R (1 pt):

Results:

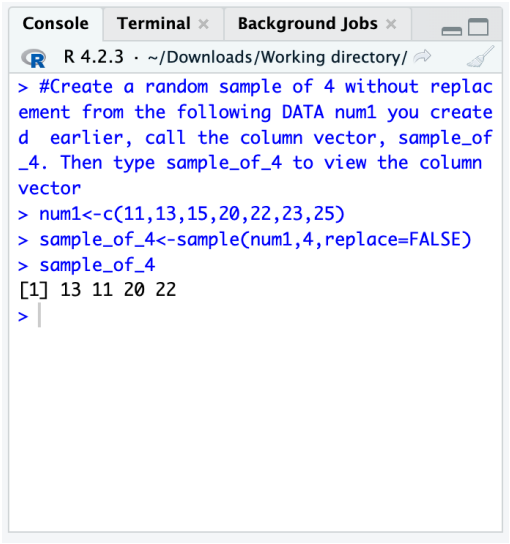


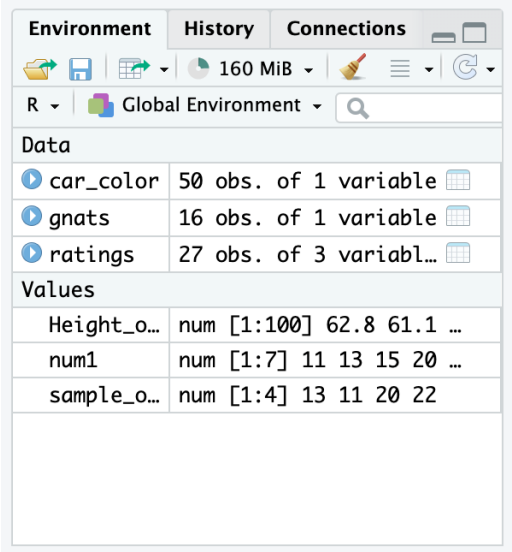


7. Create a random sample of 4 without replacement from the following DATA num1 you created earlier, call the column vector, sample_of_4. Then type sample_of_4 to view the column vector

Take a screen shot of the Global Environment and console in R (1 pt):

Results:



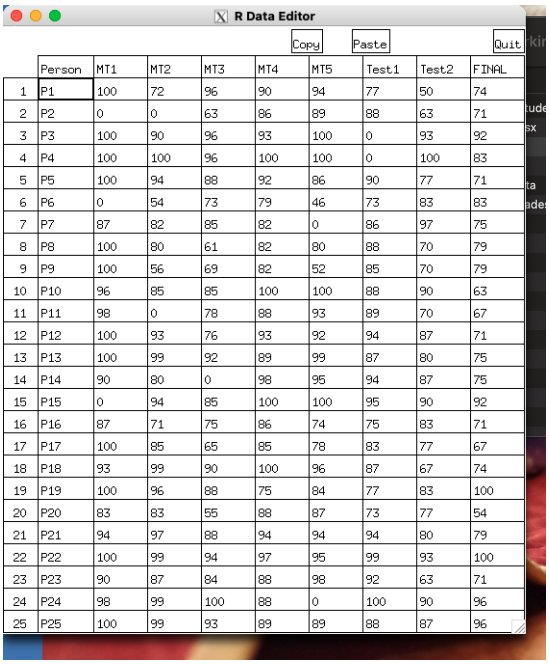


8. Upload the data set Student_Grades.xlxs , then edit the following data set, Student_Grades.xlsx in the following ways:

a. Name the new file we shall create and get ready to edit using the edit command (new file name is (Adjusted_Student_Grades.csv)

Take a Screen shot of the edit window (0.5 pts):

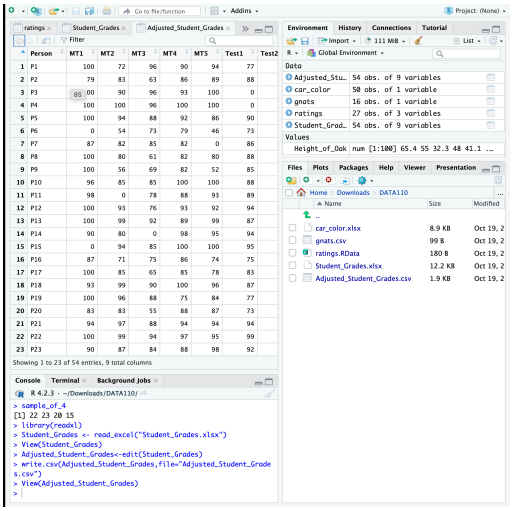
Results:



	Person	MT1	MT2	MT3	MT4	MT5	Test1	Test2	FINAL
1	P1	100	72	96	90	94	77	50	74
2	P2	0	0	63	86	89	88	63	71
3	P3	100	90	96	93	100	0	93	92
4	P4	100	100	96	100	100	0	100	83
5	P5	100	94	88	92	86	90	77	71
6	P6	0	54	73	79	46	73	83	83
7	P7	87	82	85	82	0	86	97	75
8	P8	100	80	61	82	80	88	70	79
9	P9	100	56	69	82	52	85	70	79
10	P10	96	85	85	100	100	88	90	63
11	P11	98	0	78	88	93	89	70	67
12	P12	100	93	76	93	92	94	87	71
13	P13	100	99	92	89	99	87	80	75
14	P14	90	80	0	98	95	94	87	75
15	P15	0	94	85	100	100	95	90	92
16	P16	87	71	75	86	74	75	83	71
17	P17	100	85	65	85	78	83	77	67
18	P18	93	99	90	100	96	87	67	74
19	P19	100	96	88	75	84	77	83	100
20	P20	83	83	55	88	87	73	77	54
21	P21	94	97	88	94	94	94	80	79
22	P22	100	99	94	97	95	99	93	100
23	P23	90	87	84	88	98	92	63	71
24	P24	98	99	100	88	0	100	90	96
25	P25	100	99	93	89	89	88	87	96

b. For Person 2 (P2), change the 0 for MT1 to 79 and MT2 to an 83. Close the edit screen. Then View the new file, Adjusted_Student_Grade.csv using the view command. **Take a Screen shot (0.5 pts):**

Results:



c. Create a new file called MT_Grades.csv from the Adjusted_Student_Grade.csv file where you will select only the Person, MT1, MT2, MT3, MT4 and MT5 Grades, calling the subset file temp_MT

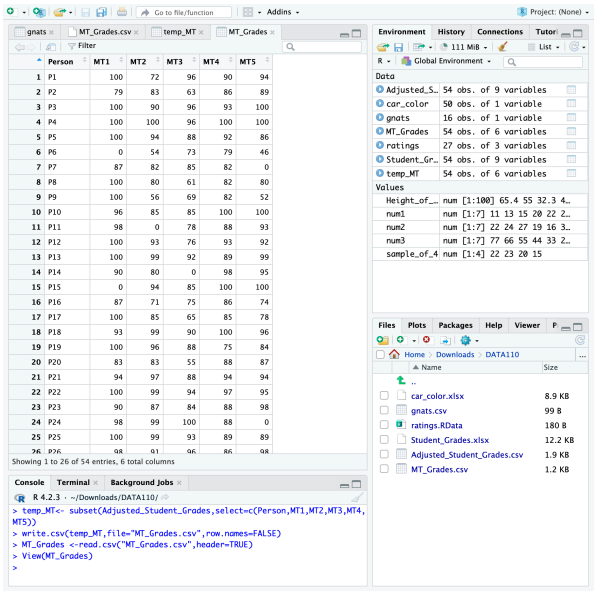
Save the file.

Then View the new file, MT_Grades.csv, using the view command.

Make sure you have the file tab open in the bottom right of R Studio.

Take a Screen shot (0.5 pts):

Results:



d. Create a new file called Exam_Grades.csv from the Adjusted_Student_Grade.csv file where you will delete MT1, MT2, MT3, MT4 and MT5 Grades, calling the subset file temp_Exam

Save the file.

Then View the new file, Exam_Grades.csv, using the view command.

Make sure you have the file tab open in the bottom right of R Studio.

Take a Screen shot (0.5 pts):

Results