1. All assignments are turned in on ELMs. ALL late assignments will have a 30 point penalty. NO EXCEPTIONS!!
2. Make sure you save the file with the filename: your_last_name_first_Initial_assignment_name in a word document. For Example: Mazzullo_S_HW1 or Mazzullo_S_Project_2
3. Your homework should include the following **when applicable**:
    a. your name at top of document
    b. name of Assignment at the top of document (e.g., Homework 1, Write-Up project, etc.)
    c. answers to any question asked
    d. results in the output window, if applicable (copy and paste all results)
    e. code you used, if applicable (copy and paste what is in your editor)
    f. CLEARLY mark your answer. DO NOT EXPECT THE GRADER TO FIND YOUR ANSWERS!!
4. Read instructions to homework, projects and write-up thoroughly and do exactly as directed. Order of what you turn in will matter!

Homework 1:

1. Data was collected on several participants in a speed reading course:

Variable Name	Description	Type	Starting Column	Ending Column
SUBJ	Subject number	Character	1	3
AGE	Age in Years	Numeric	4	5
WORDS_INIT	Number of words per minute before program	Numeric	6	8
WORDS_FINAL	Number of words per minute after program	Numeric	10	12

DATA
02121110 150
00119090 140
00920100 115
05021160 200

    a. Read the following data using column input designated above. Include all the variables (SUBJ, AGE, WORDS_INIT, WORDS_FINAL) listed above. Create a new variable DIFFERENCE which is the difference of WORDS_FINAL and WORDS_INIT.
    b. Make sure you inputted the data correctly by doing a PROC PRINT.
    c. Then state only the average increase for the number of words per minute each of these participants gained after taking this speed reading course.
    d. Upload the code you used, output, and answer to part c.

2. Using BloodType data on SASonDemand, where the only variable in this data set is BLOOD_TYPE do the following:
    a. Construct a table that only gives a frequency and relative frequency table of BLOOD_TYPE.
    b. Construct a pie chart where you "explode" the blood type B.
    c. Based on your output, which blood type is rarest?
    d. Upload the code you used, output, and answer to part c.

3. Using the file ForSASBlackboard003 file on SASonDemand with the following variables:

    role $

    MINITAB1

    MINITAB2

    MINITAB3

    MINITAB4

    MINITAB5

    MINITAB6

    MIDTERM

    FINAL_EXAM

    Do the following:
    a. Create new variables called AVE_MINITAB_GRADE and FINAL_GRADE (the final grade is calculated based on the syllabus of this course as 50% from the final exam, 30% from midterm, and 20% from average MINITAB grade.
    b. Find the mean and standard deviation to 1 decimal place of MINITAB6, AVE_MINITAB_GRADE, MIDTERM, AND FINAL_EXAM.
    c. Make a histogram with 11 bins for FINAL_GRADE, 0-< 10, 10 - <20, …,90-<100, 100-<110
    d. Upload the code you used and output.