Homework 2

Exercise 1:

What is wrong in the following programs:

Program 1:
data New-Data;
 Infile:\Stat425625\Course\Prob4Data.txt;
 input x1 x2
 y1 = **3**(x1) + **2**(x2);
 y2 = x1 /x2;
 New_variable_from_X1_and_X2 = X1 + X2 - **37**;
run;

Program 2:

data XYZ;
 Infile "C:\Stat425625\Course\DataXYZ.txt";
 input Gender X Y Z;
 Sum = X + Y + Z;
run;
The file "C:\Stat425625\Course\DataXYZ.txt" looks as follows:
Male 1 2 3
Female 4 5 6
Male 7 8 9

Exercise 3:

Select the best answer for each question. Check your answers using the answer key in the appendix.

1. As you write and edit SAS programs, it is a good idea to do the following:
    1. Begin DATA and PROC steps in column one.
    2. Indent statements within a step.
    3. Begin RUN statements in column one.
    4. Do all of the above.
2. Suppose you have submitted a SAS program that contains spelling errors. Which set of steps should you perform, in the order shown, to revise and resubmit the program?
        1.
            ▪ Correct the errors.

- Clear the Log window.
- Resubmit the program.
- Check the Log window.

2.
- Correct the errors.
- Resubmit the program.
- Check the Output window.
- Check the Log window.

3.
- Correct the errors.
- Clear the Log window.
- Resubmit the program.
- Check the Output window.

4.
- Correct the errors.
- Clear the Output window.
- Resubmit the program.
- Check the Output window.

3. What happens if you submit the following program?

```
proc sort data=sasuser.stress out=maxrates;
   by maxhr;
run;
proc print data=maxrates label double noobs;
   label rechr='Recovery Heart Rate;
   var resthr maxhr rechr date;
   where toler='I' and resthr>90;
   sum fee;
      run;
```

1. Log messages indicate that the program ran successfully.
2. A PROC SORT running message appears at the top of the active window, and a log message might indicate an error in a statement that seems to be valid.
3. A log message indicates that an option is not valid or not recognized.
4. A PROC PRINT running message appears at the top of the active window, and a log message might indicate that a quoted string has become too long or that the statement is ambiguous.

Exercise 4:

Which PROC PRINT step below creates the following output?

```
proc print data=flights.laguardia noobs;
  var on changed flight;
  where on>=160;
run;
proc print data=flights.laguardia;
  var date on changed flight;
  where changed>3;
run;
proc print data=flights.laguardia label;
  id date;
  var boarded transferred flight;
  label boarded='On' transferred='Changed';
  where flight='219';
run;
proc print flights.laguardia noobs;
  id date;
  var date on changed flight;
  where flight='219';
run;
```