Workshop Assignment 1: Group

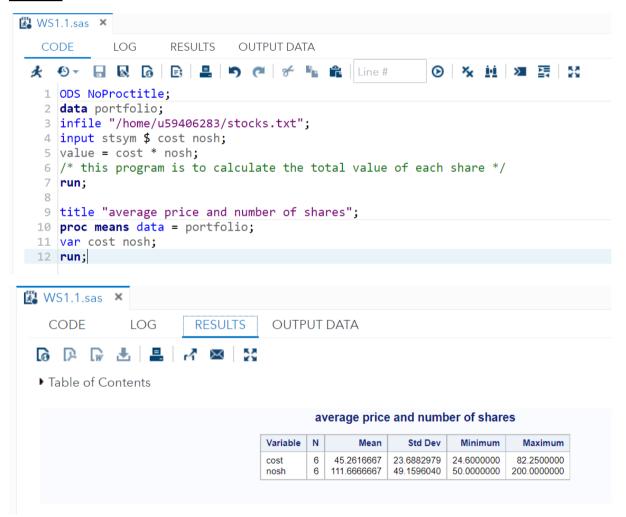
Question 1.

You have a text file called stocks.txt containing a stock symbol, a price, and the number of shares. Here are some sample lines of data:

```
AMGN 67.66 100
DELL 24.60 200
GE 34.50 100
HPQ 32.32 120
IBM 82.25 50
MOT 30.24 100
```

- a. Using this raw data file, create a temporary SAS data set (Portfolio). Choose your own variable names for the stock symbol, price, and number of shares. In addition, create a new variable (call it Value) equal to the stock price times the number of shares. Include a comment in your program describing the purpose of the program, your name, and the date the program was written.
- b. Write the appropriate statements to compute the average price and the average number of shares of your stocks.

Answer:



Question 2.

Given the program here, add the necessary statements to compute four new variables:

- a. Weight in kilograms (1 kg=2.2 pounds). Namethis variable WtKg.
- c. Height in centimeters (1 inch = 2.54 cm). Name this variable HtCm.
- d. Average blood pressure (call it AveBP) equal to the diastolic blood pressure plus one-third the

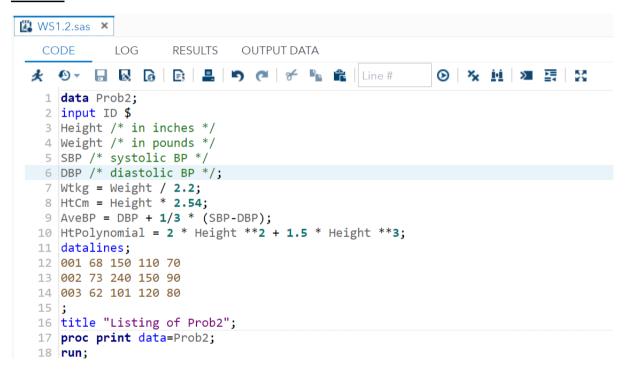
difference of the systolic blood pressure minus the diastolic blood pressure.

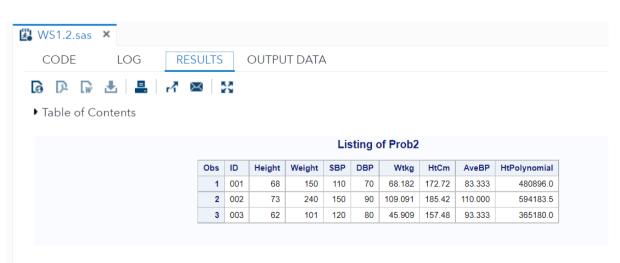
e. A variable (call it HtPolynomial) equal to 2 times the height squared plus 1.5 times the height cubed.

```
Here is the program for you to modify:
```

```
data Prob2;
input ID $
Height /* in inches */
Weight /* in pounds */
SBP /* systolic BP */
DBP /* diastolic BP */;
< place your statements here >
datalines;
001 68 150 110 70
002 73 240 150 90
003 62 101 120 80
;
title "Listing of Prob2";
proc print data=Prob2;
run;
```

Answer:

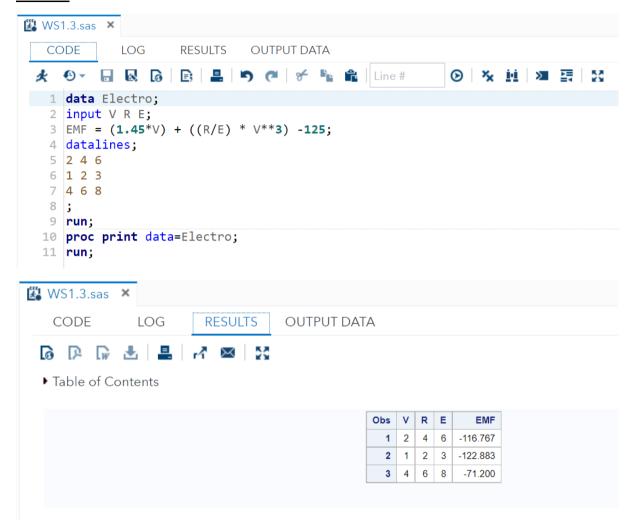




Question 3. You are given an equation to predict electromagnetic field (EMF) strength, as follows: EMF = $1.45 \times V + (R/E) \times V_3 - 125$.

If your SAS data set contains variables called V, R, and E, write a SAS assignment statement to compute the EMF strength.

Answer:



Question 4.

What is wrong with this program?

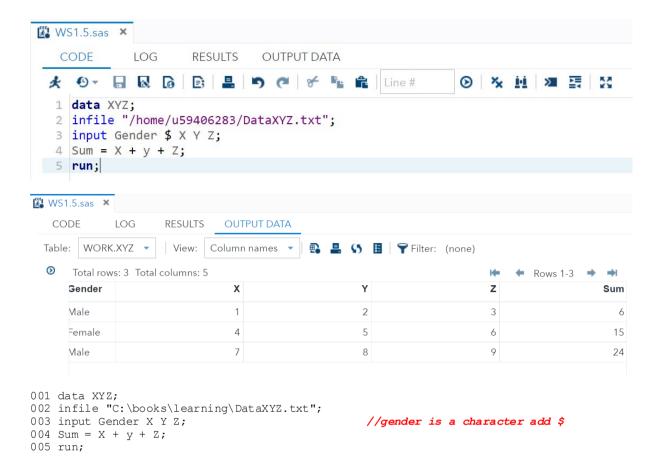
```
001 data New-Data;
002 infile C:\books\learning\Prob4data.txt;
003 input x1 x2
004 \text{ y1} = 3(\text{x1}) + 2(\text{x2});
005 \text{ y2} = \text{x1} / \text{x2};
006 New_Variable_from_X1_and_X2 = X1 + X2 - 37;
007 run;
```

Note: Line numbers are for reference only; they are not part of the program.

Answer:



Answer:



Add the following information in every workshop submission:

Sr.No	Name	Contribution
1	Sukanya Mukherjee	Question 1
2	Kanishk Kumar	Question 2
3	Nishant Kotak	Question 3
4	Prachi Sahai	Question 4
5	Shravan Shroff	Question 5