WorkShop 1-A

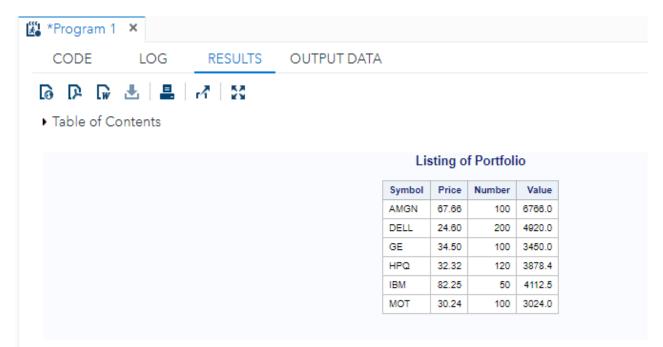
Problem 2.1

(a)

Code:

```
*Program 1 ×
           LOG
                  RESULTS
  CODE
                         OUTPUT DATA
 1
   2 /* Read text file and compute values
   3 By - Parth Gadani
  4 Date - 15/01/2021
  6 data portfolio;
    infile '/folders/myfolders/71442_example/stocks.txt';
  7
    input Symbol $ Price Number;
    Value = Number*Price;
  10 run;
  11
  12 title "Listing of Portfolio";
  13 proc print data=portfolio noobs ;
 14 run;
```

Result:

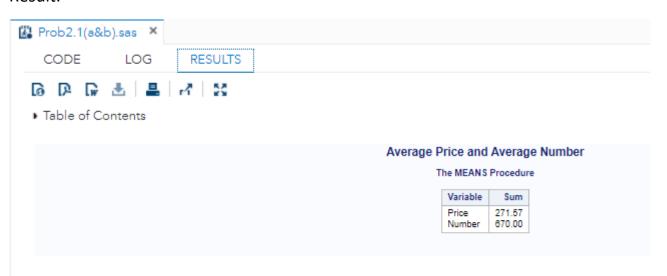


(b)

Code:

```
Prob2.1(a&b).sas ×
  CODE
           LOG
                    RESULTS
 犬 💇 🔒 😡 🖟 🖺 🕒 🐚 🎮 🛠 📭 💼 🗎 Line# 😥 🖎 舧 🕽
   1
   2 /* Read text file and compute values
   3 By - Parth Gadani
   4 Date - 15/01/2021
   6 data portfolio;
   7 infile '/folders/myfolders/71442_example/stocks.txt';
   8 input Symbol $ Price Number;
   9 Value = Number*Price;
  10 run;
  11
  12 title "Portfolio";
  13 proc print data=portfolio noobs ;
  14 run;
  15 */
  16 | title "Average Price and Average Number";
  17 proc means data=portfolio sum maxdec=2;
  18 var Price Number;
19 run;
```

Result:

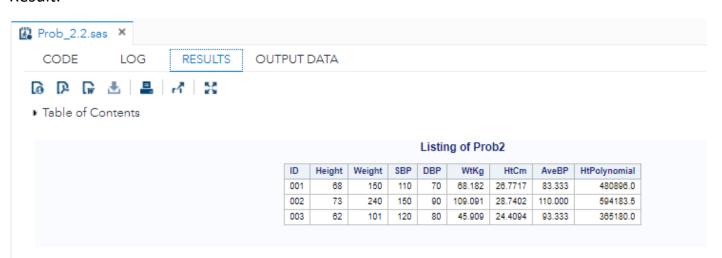


Problem 2.2

Code:

```
Rrob_2.2.sas ×
  CODE
             LOG
                     RESULTS
 ★ ①▽ 🔒 😡 🖟 📳 🚇 " (*) 🏕 😘 🛍 Line# 🕑 🛰 🛍 🗯 👯
1 data Prob2;
   2 input ID $
   3 Height /* in inches */
   4 Weight /* in pounds */
   5 SBP /* systolic BP */
6 DBP /* diastolic BP */;
   8 *a) Weight in kilograms (1 kg = 2.2 pounds). Name this variable WtKg;
   9 WtKg=Weight/2.2;
  10
  11 *b) Height in centimeters (1 inch = 2.54 cm). Name this variable HtCm;
  12 HtCm=Height/2.54;
  13
  14 *c) Average blood pressure (call it AveBP) equal to the diastolic blood pressure plus one-third the
  15 difference of the systolic blood pressure minus the diastolic blood pressure;
  16 AveBP = DBP + 1/3*(SBP - DBP);
  18 |*d) A variable (call it HtPolynomial) equal to 2 times the height squared plus 1.5 times the height
  19 cubed;
  20 HtPolynomial = 2 *Height**2 + 1.5 *Height**3;
  21
  22 datalines:
  23 001 68 150 110 70
  24 002 73 240 150 90
  25 003 62 101 120 80
  26 ;
  27 title "Listing of Prob2";
  28 proc print data=Prob2 noobs;
  29 run;
/folders/myfolders/lectures/Prob_2.2.sas
```

Result:



Problem 2.3

Notepad Screenshot:

```
Prob2.3 - Notepad

File Edit Format View Help

Q.)

You are given an equation to predict electromagnetic field (EMF) strength, as follows:

EMF = 1.45 x V + (R/E) x V3 - 125.

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

Ans.)

EMF = 1.45*V + (R/E)*v**3 - 125;
```

Problem 2.4

Notepad Screenshot:

```
Prob2.4 - Notepad
File Edit Format View Help
(0.)
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;
Ans.)
Invalid data set name (cannot contain - ) on line 001
filename should be quoted on line 002
Missing; on line 003
Missing * on line 004
```

Problem 2.5

Code:

```
🚜 Prob2.5.sas 🗶
           LOG
                  RESULTS
  CODE
                          OUTPUT DATA
                                                夫 ①- 🖫 🖫 📵 🖺 🕒 🥶 😭 💼 💼
                                          Line #
 1 /* Correct Program */
  2 data XYZ;
    infile "/folders/myfolders/71442 example/DataXYZ.txt";
  4 input Gender $ X Y Z;
  5 Sum = X + y + Z;
    run;
  7 Proc print data=xyz noobs;
8 run;
```

Result:



Notepad screenshot:

```
Prob2.5-Notepad

File Edit Format View Help

Q.)

What is wrong with this program?

001 data XYZ;

002 infile "C:\books\learning\DataXYZ.txt";

003 input Gender X Y Z;

004 Sum = X + y + Z;

005 run;

The File C:\books\learning\DataXYZ.txt looks as follows:

Male 1 2 3

Female 4 5 6

Male 7 8 9

Ans.)

Need $ sign after Gender
```

Note: Also please find the attached .SAS file for the correct program.