Lab 4:

This is the same problem as problem 2 from chapter 6 in your book on page 321; except that the implementation requirements are different.

A hospital supply company wants to market a program to assist with the calculations of intravenous rates. Design and implement a program that interacts with the user as follows:

```
INTRAVENOUS RATE ASSISTANT

Enter the number of the problem you wish to solve.
     GIVE A MEDICAL ORDER IN                 CALCULATE RATE IN
   (1)     ml/hr & tubing drop factor            drops / ml
   (2)     1 L for n hr                          ml / hr
   (3)     mg/kg/hr & concentration in mg/ml     ml / hr
   (4)     units/hr & concentration in units/ml  ml / hr
   (5)     QUIT


Problem=>  1
Enter rate in ml/hr=>  150
Enter tubing's drop factor(drops/ml)=>  15
The drop rate per minute is 38.

Enter the number of the problem you wish to solve.
     GIVE A MEDICAL ORDER IN                 CALCULATE RATE IN
   (1)     ml/hr & tubing drop factor            drops / ml
   (2)     1 L for n hr                          ml / hr
   (3)     mg/kg/hr & concentration in mg/ml     ml / hr
   (4)     units/hr & concentration in units/ml  ml / hr
   (5)     QUIT


Problem=>  2
Enter number of hours=>  8
The rate in milliliters per hour is 125.

Enter the number of the problem you wish to solve.
     GIVE A MEDICAL ORDER IN                 CALCULATE RATE IN
   (1)     ml/hr & tubing drop factor            drops / ml
   (2)     1 L for n hr                          ml / hr
   (3)     mg/kg/hr & concentration in mg/ml     ml / hr
   (4)     units/hr & concentration in units/ml  ml / hr
   (5)     QUIT


Problem=>  3
```

```
Enter rate in mg/kg/hr=>  0.6
Enter patient weight in kg=>  70
Enter concentration in mg/ml=>  1
The rate in milliliters per hour is 42.

Enter the number of the problem you wish to solve.
     GIVE A MEDICAL ORDER IN                CALCULATE RATE IN
  (1)      ml/hr & tubing drop factor           drops / ml
  (2)      1 L for n hr                          ml / hr
  (3)      mg/kg/hr & concentration in mg/ml     ml / hr
  (4)      units/hr & concentration in units/ml  ml / hr
  (5)      QUIT

Problem=>  4
Enter rate in units/hr=>  1000
Enter concentration in units/ml=>  25
The rate in milliliters per hour is 40.

Enter the number of the problem you wish to solve.
     GIVE A MEDICAL ORDER IN                CALCULATE RATE IN
  (1)   ml/hr & tubing drop factor              drops / ml
  (2)   1 L for n hr                            ml / hr
  (3)   mg/kg/hr & concentration in mg/ml       ml / hr
  (4)   units/hr & concentration in units/ml    ml / hr
  (5)   QUIT

Problem=>  5
```

Coding Requirements:

There must be at least four functions (not including the main function) and there must be an example of each of the four following types of functions:

1.) Takes in parameters and returns a value
2.) Does not take in parameters and returns a value
3.) Takes in parameters and does not return a value
4.) Does not take in parameters and does not return a value