COSC 010  HW3  20 Points

1) Write a program to compute income taxes. Your program must read in two inputs:
   (i) Salary (float)   (ii) Num of dependents (int).

Here are the rules for the tax computation:

   a) If the salary is above 200,000.00; your tax rate is 40%
   b) If the salary is above 100,000.00 and less than equal to 200000.00
      Then the following rules apply:

      i) if the number of dependents are 2 or more  tax rate is 10%.
      ii) if the number of dependents is 1 tax rate is 20%.
      iii) if the number of dependents is 0 tax rate is 30%.

   b) If the salary is below or equal to 100000.00, then the following rules apply.

      a) if the number of dependents are 2 or more  tax rate is 5%.
      b) if the number of dependents is 1 tax rate is 7%.
      c) if the number of dependents is 0 tax rate is 9%.

Your program should compute the taxes and print it out. Make sure your all the output is clearly labeled. Make sure that you use good variable names.

2) There is a medieval puzzle about an old woman and a basket of eggs. On her way to the market a horseman knocks her down and the eggs are all broken. The horseman will pay for the eggs, but the women does not remember the exact number she had, only that when she took the eggs in pairs there was one left over; similarly, there was one left over when she took them three, four, five, or six at a time. But when she took them seven at a time, it came out even.

Write a program to determine the smallest number of eggs women could have had.