For the following problems, some for homework #2 and some from homework #3, need to take the algorithm and convert it to a Visual Basic program. Remember to following guidelines given for turning in actual program assignments. All programs need to have Option Strict On, with output pasted below source code and comment section at top with name. Each problem will need its own program to turn in. Do not turn in the algorithm for these, you already did.

1) User enters an integer and problem tells user if the number is between 1 and 100, and if it is then display “Good Input”, else displays “Bad Input”.

2) A problem that will convert a total number of days into the corresponding number of years and days left over. For example, if you enter 1254 days, then it would display “3 years and 159 days”. (Hint, there are 365 days in one year, and use the / (div) and % (mod) operators)

3) A problem that has user continue to enter weight of people and keeps a running total weight of all the people and also keeps track of the number of people entered. This will continue until a weight entered is less than or equal to zero. Problem will then display the average weight of all the people.

4) All years that are evenly divisible by 400 are always a leap year. They are also a leap year if they are evenly divisible by 4 AND are not evenly divisible by 100. For example, 1600 was a leap year because it is evenly divisible by 400. Likewise 1988 was a leap year because it was evenly divisible by 4 AND not evenly divisible by 100.

For this last problem you need to do three step analysis, write an algorithm and then convert to code. Turn in all three.

5) A problem that lets the user enter any positive integer, but you do not have to check for this, and then determines the number of digits in that integer. For example, if user enters 14503, the output would say 5 digits.