**Extra Practices 8**

***Programming Questions***

1. Write a program that reads in 10 whole numbers and outputs the sum of all numbers greater than zero, the sum of all the numbers less than zero (which will be a negative number or zero), and the sum of all the numbers, whether positive, negative, or zero. The user enters the ten numbers just once each and the user can enter them in any order. Your program should not ask the user to enter the positive numbers and the negative numbers separately.

2. A metric ton is 35, 273.92 ounces. Write a program that will read the weight of a package of breakfast cereal in ounces and output the weight in metric tons as well as the number of boxes needed to yield one metric ton of cereal. Your program should allow the user to repeat this calculation as often as the user wishes.

3. Write a program that finds and prints all of the prime numbers between 3 and 100. A prime   
 number is a number such that one and itself are the only numbers that evenly divide   
 it (e.g., 3, 5, 7, 11, 13, 17…). Define a function to check if each number entered by the user   
 is prime or not and returns the result to the main function where it will be printed.

4. A litter is 0.264179 gallons. Write a program that will read in the number of liters in gasoline consumed by the user’s car and the number of miles traveled by the car, and will then output the number of miles per gallon the car delivered. Your program should allow the user to repeat this calculation as often as the user wishes. Define a function to compute the number of miles per gallon.  
Your program should use a constant macro for defining the number of liters per gallon.

5. Write a program to read in an integer value between 10 and 99 and decompose that number into tens and units. For example, 59 will consist of 5 tens and 9 units.

* In each case, the main function should read the values (keep asking if the number entered is not between 10 and 99 inclusively), call helper (decomp2) function to determine the tens and units values, and print those values.