Practice using Arrays

Declare the following arrays in in each of your console applications  
static char[] vowels = {'a', 'e', 'i', 'o', 'u'};

static int[] primes = {2, 3, 5, 7, 11, 13, 17, 19};

static string[] poem = {"Mary", "had", "a", "little", "lamb"};

static string[] obama = {"Barack", "Hussein", "Obama"};

1. Write a console app that prints the string array obama. Each element must be on a separate line.
2. Write a console app that prints the string array poem. All the items must be in the same line.
3. Write a console app that sums all the items of the array primes, and then display this sum.
4. Write a console app that displays all elements of int array primes, then doubles all the items of the array and then displays the new values.
5. Write a console app that will do the following:
   1. display all the items of the char array vowels on a single line
   2. subtract 32 from each item of the char array vowels. You will have to cast the 32 to a char in order to do the subtraction
   3. display all the new items of the char array vowels on a single line
6. Write a console app that ask user to input the phrase. Create and then display array that will contain the numbers of each letter in alphabet in the phrase. The letter frequencies are displayed from highest to lowest.
7. Write a program containing an array that holds five integers. Assign values to the integers. Display the integers from first to last, and then display them from last to first.
8. Th e Chat-A-While phone company provides service to six area codes and charges the per-minute rates for phone calls shown in the accompanying table.

Area Code Per- Minute Rate ($)

262 0.07

414 0.10

608 0.05

715 0.16

815 0.24

920 0.14

Write a program that allows a user to enter an area code and the length of time for a call in minutes, then display the total cost of the call.

1. Write a program that computes commissions for automobile salespeople based on the value of the car. Salespeople receive 5% of the sale price for any car sold for up to and including $15,000; 7% for any car over $15,000 up to and including $24,000; and 10% of the sale price of any car over $24,000. Write a program that allows a user to enter a car price. The output is the salesperson’s commission. Use parallel arrays.