1. Write a C program that takes a value from user and store in variable num1. Test the value of num1, if the value of num1 is 5,6,7,8 square num1. If it is 9, read a new value into num1. If it is 2 or 3, multiply num1 by 99 and print out the result. Implement your code using nested if statement.
2. A manufacturer would like to have a device for a car that will turn on a light when the temperature is between 34 and 40 degrees Fahrenheit (F) and sound a warning signal when the outside temperature is 34 degrees F or below. The light and the sound are never going simultaneously. Write a solution to this problem.