**C# Project 2 Part 1 – Harold’s Home Services**

Create a project that will be used for an application for Harold’s Home Services that allows jobs to be entered, stored in an array, and displayed. Part 1 will be to create the instantiable Job class, and to thoroughly test all aspects of it. Part 2 will be the actual application that uses a Menu approach to allow the user to enter, combine and display the jobs.

* Create the following:
  + An instantiable ***Job*** class, used to create Job objects (no main method)
    - Class should contain 3 properties: job description (string), hours to complete (double) and hourly rate (double), with proper getters an setters for each property
    - Default constructor (description: “mow yard”, time: 1 hour, rate: 10.00)
    - First overloaded constructor (accept description; time: 1 hour, rate: 10.00)
    - Second overloaded constructor (accept all three as parameters)
    - An instance method CalcFee that calculates and returns the total fee (hours \* rate)
    - Overload the + operator (will be used when combining jobs). The following rules apply to combining two jobs:
      * Description is the description of both jobs joined by *and* (ex. Mow and Trim)
      * Hours is the sum of the hours of both jobs (2 + 1 = 3)
      * Rate is the average of the rates of both jobs (10.00 + 7.00 = 17.00 / 2 = 8.50)
    - Implement the IComparable interface, and override its CompareTo method (used when sorting jobs during display all jobs process)
    - CompareTo method must call the CalcFee method
  + A control class named TestJobs that is used to test all portions of your Job class:
    - Properties, methods, constructors, display (sorting process), combining (+ operator)
    - Be sure to create an array of five Jobs
    - Parameter values should be “hard-coded” for testing purposes

Project is worth 100 points.