Project 2

Create the following:

* A button that creates a serial port object and opens the relevant com port. Label the button “communicate”.
* A button that closes the port labeled “close port”.

**(Please create the serial port object, set the baud rate, and port name under the form1 class. Only put portname.open() and portname.close() in the buttons).**

* A button, label, and text box as follows. The label is labeled as “distance”. The button will retrieve the distance from an ultrasound in cm one time, no loop is required.
* A button, label, and text box as follows. The label is labeled as “temperature”. The button will retrieve the distance temperature from a sensor in centigrade one time, no loop is required.
* A button, label, and text box as follows. The label is labeled as “resistance”. The button will retrieve the resistance in ohms from an unknown resister one time, no loop is required.
* All the values retrieved will be displayed in the corresponding text boxes.
* When the port is open, turn on a green LED in the circuit, and off when port is closed.

Submit a Word document with a picture of the circuit, copy and paste the Arduino code under it, a screen shot of the form design, copy and paste the C# code under it.