**Schematic Diagram**

**Diagram, schematic

Description automatically generated**

**Code**

**Text

Description automatically generated**

**Text

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**Text

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**On board**

**A close - up of a circuit board

Description automatically generated with low confidence**

1. Connect a circuit with an ATMega328P and MCP9700A (analog temperature sensor) and write a program to transmit the current ambient temperature to your PC using a serial port

**Result**

**Graphical user interface, text, application

Description automatically generated**

1. Extend your program to display the current ambient temperature on the 16x2 alphanumeric LCD display in addition to transmiting through the serial port   
   **Result**

**Graphical user interface

Description automatically generated**