## Oscilloscope Usage
- Used scope to observe RS-232 data transfer
  - Outcome: Yes/No
  - Score: 1

## Thermostat Operation
- Buttons select and indicate high/low adjustment
  - Outcome: Yes/No
  - Score: 2
- Rotary encoder adjusts selected temperature
  - Outcome: Yes/No
  - Score: 2
- Low threshold ≤ high threshold
  - Outcome: Yes/No
  - Score: 1
- Threshold values stored in EEPROM and retrieved
  - Outcome: Yes/No
  - Score: 1
- Temperature sensor responds to temperature changes
  - Outcome: Yes/No
  - Score: 3
- Heating and cooling LEDs respond correctly
  - Outcome: Yes/No
  - Score: 2
- Thermostat sends local temperature to remote device
  - Outcome: Yes/No
  - Score: 2
- Thermostat receives temperature from remote device
  - Outcome: Yes/No
  - Score: 2

## Code Organization (Graded after submission)
- Code is indented properly and has comments
  - Outcome: Yes/No
  - Score: 2
- Program broken into separate files based on function
  - Outcome: Yes/No
  - Score: 2
- Correctly initializes appropriate I/O ports
  - Outcome: Yes/No
  - Score: 2
- Correctly initializes USART (serial data) functions
  - Outcome: Yes/No
  - Score: 1
- Correctly initializes tri-state gate on RX line
  - Outcome: Yes/No
  - Score: 1
- DS18B20 routines are correct
  - Outcome: Yes/No
  - Score: 2
- Temperature calculation (no FP, uses fractional degree C)
  - Outcome: Yes/No
  - Score: 2
- USART receiver uses ISR properly
  - Outcome: Yes/No
  - Score: 2

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<tr>
<th>Item</th>
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**Total**: 30

Open ended comments: