1. **Result analysis:**

However, an experimental setup was completed, and numerous temperature measurements were taken and shown appropriately. Here are a few sample displays and observations along with a quick commentary.

The main outputs of this effort are two. One was to automatically display the temperature on an LCD display, and the second automatic fan ON/OFF switching was even more crucial for continuously monitoring the temperatures. Temperature output and fan status are both produced by LCD displays. It is visible that the LCD panel is showing a temperature of 30 degrees Celsius and that the fan is now turned on. In fact, fan operation depends on the thresholds set. Set the value to 30 degrees Celsius. For example, when the temperature drops below 25 degrees Celsius, the fans will automatically turn off. You can see the display interface with breadboard and Arduino hardware.