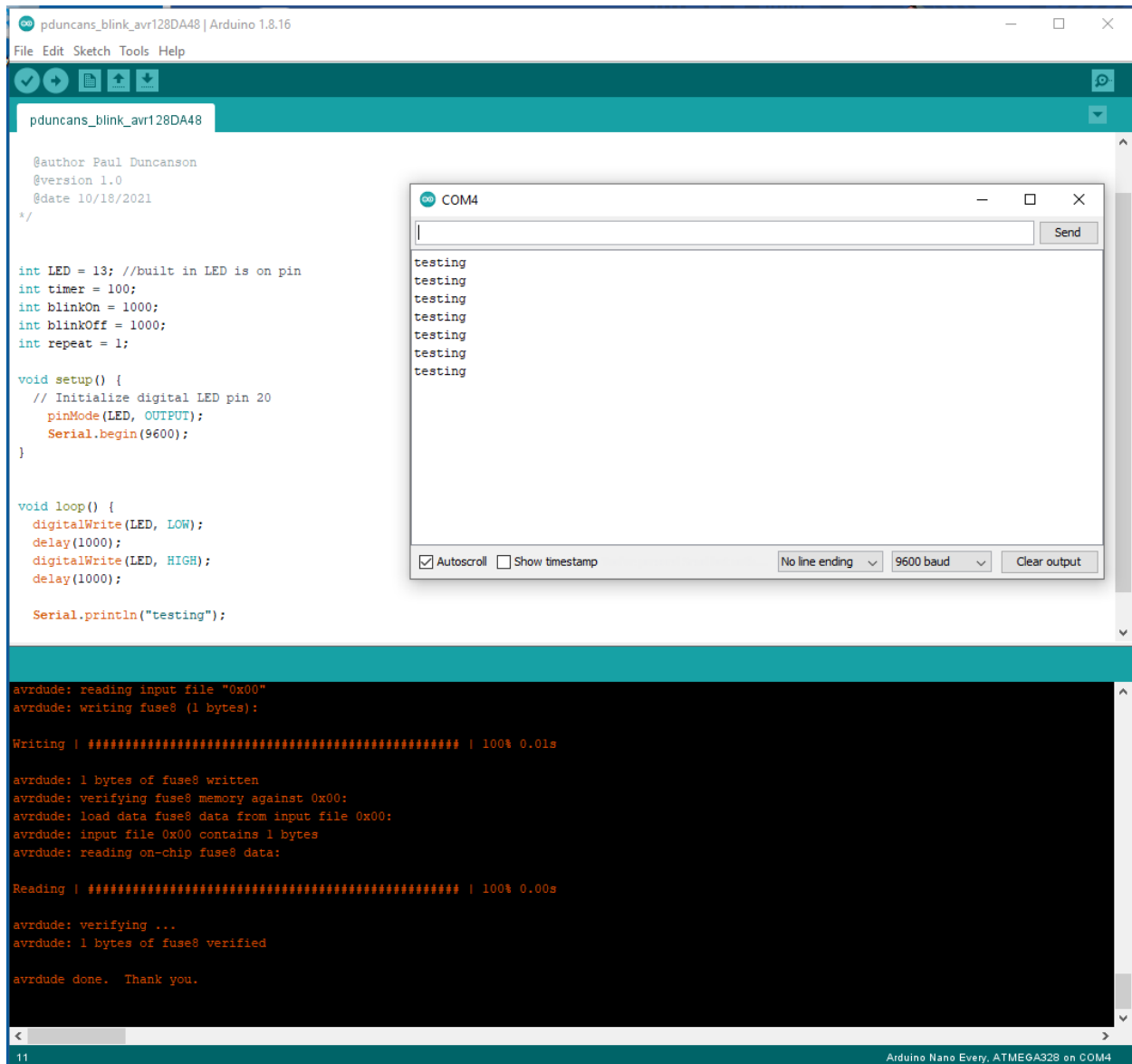


Task #75: Verify serial monitor is working with AVR128DA48

Nano Every Test



The screenshot displays the Arduino IDE interface. The top menu bar includes 'File', 'Edit', 'Sketch', 'Tools', and 'Help'. The toolbar contains icons for opening, saving, and running sketches. The sketch editor shows a file named 'pduncans_blink_avr128DA48' with the following code:

```
@author Paul Duncanson
@version 1.0
@date 10/18/2021
*/

int LED = 13; //built in LED is on pin
int timer = 100;
int blinkOn = 1000;
int blinkOff = 1000;
int repeat = 1;

void setup() {
  // Initialize digital LED pin 20
  pinMode(LED, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  digitalWrite(LED, LOW);
  delay(1000);
  digitalWrite(LED, HIGH);
  delay(1000);

  Serial.println("testing");
}
```

A 'COM4' serial monitor window is open, showing the output 'testing' repeated seven times. The window has a 'Send' button and checkboxes for 'Autoscroll' (checked) and 'Show timestamp' (unchecked). It also features dropdown menus for 'No line ending' and '9600 baud', along with a 'Clear output' button.

The bottom console window shows the following output:

```
avrdude: reading input file "0x00"
avrdude: writing fuse8 (1 bytes):

Writing | ##### | 100% 0.01s

avrdude: 1 bytes of fuse8 written
avrdude: verifying fuse8 memory against 0x00:
avrdude: load data fuse8 data from input file 0x00:
avrdude: input file 0x00 contains 1 bytes
avrdude: reading on-chip fuse8 data:

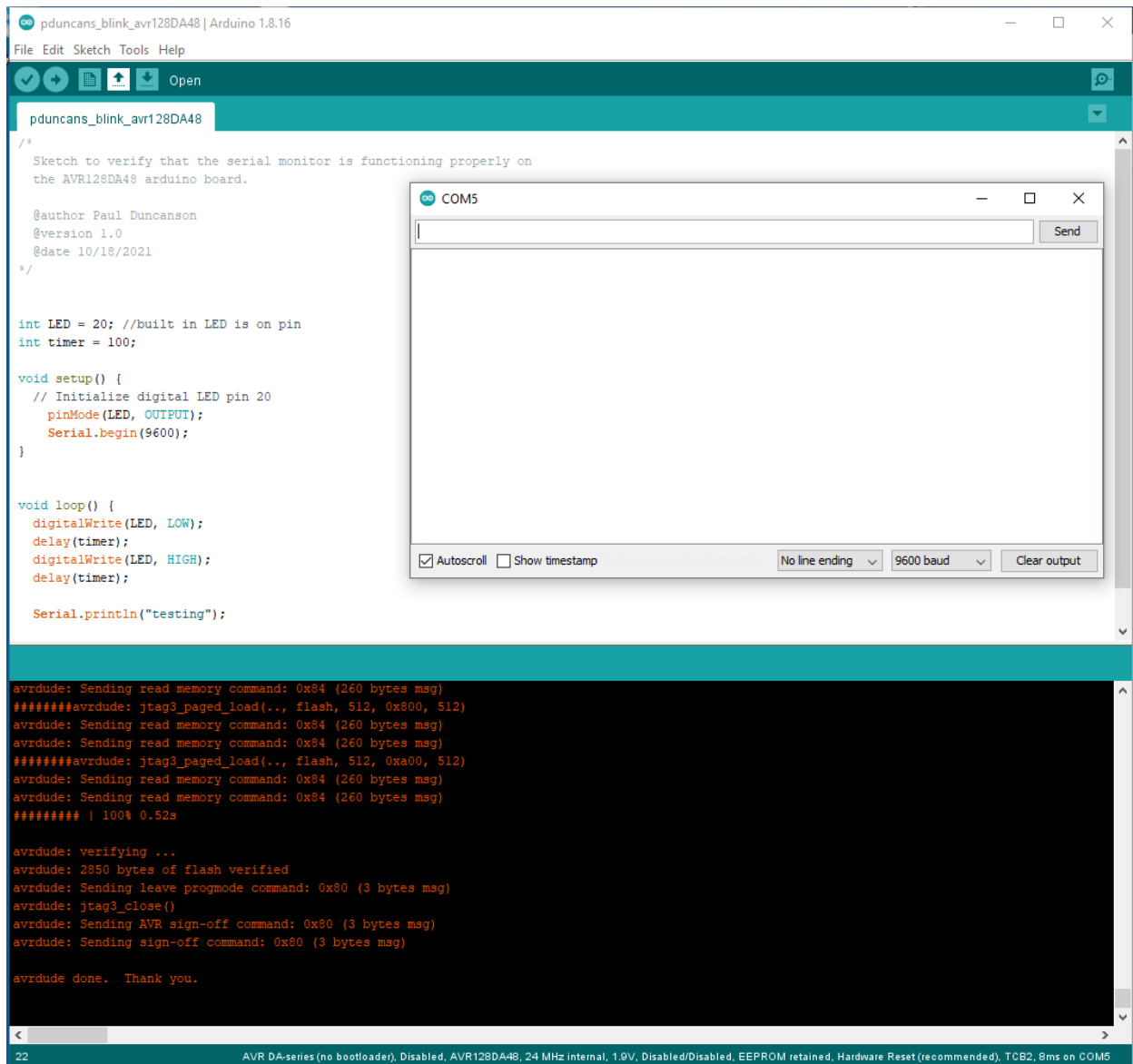
Reading | ##### | 100% 0.00s

avrdude: verifying ...
avrdude: 1 bytes of fuse8 verified
avrdude done. Thank you.
```

The status bar at the bottom indicates '11' and 'Arduino Nano Every, ATMEGA328 on COM4'.

The Nano Every serial monitor is functioning properly in the IDE. The TX light on the board is also flashing to indicate transmission.

AVR128DA48 Test



The Serial monitor does not transmit the desired text to the IDE. Changing the baud rate and searching through the config files have not fixed the issue. The TX indicator light is also non-responsive on the actual board. This problem needs to be discussed with our project's sponsor, Bob Martin. Our sponsor has conveyed that he will take care technical issues involving low level functionality.