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 MIDI note player

 This sketch shows how to use the serial transmit pin (pin 1) to send MIDI note data.

 If this circuit is connected to a MIDI synth, it will play

 the notes F#-0 (0x1E) to F#-5 (0x5A) in sequence.

The circuit:

 \* digital in 1 connected to MIDI jack pin 5

 \* MIDI jack pin 2 connected to ground

 \* MIDI jack pin 4 connected to +5V through 220-ohm resistor

 Attach a MIDI cable to the jack, then to a MIDI synth, and play music.

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void setup() {

  //  Set MIDI baud rate:

  Serial.begin(31250);

}

void loop() {

  // play notes from F#-0 (0x1E) to F#-5 (0x5A):

  for (int note = 0x1E; note < 0x5A; note ++) {

    //Note on channel 1 (0x90), some note value (note), middle velocity (0x45):

    noteOn(0x90, note, 0x45);

    delay(100);

    //Note on channel 1 (0x90), some note value (note), silent velocity (0x00):

    noteOn(0x90, note, 0x00);

    delay(100);

  }

}

//  plays a MIDI note.  Doesn't check to see that

//  cmd is greater than 127, or that data values are  less than 127:

void noteOn(int cmd, int pitch, int velocity) {

  Serial.write(cmd);

  Serial.write(pitch);

  Serial.write(velocity);

}