SIGN UP

```
sketch.ino README.md diagram.json libraries.txt Library Manager ▼
                  #include <Stepper.h>
                  #include <LiquidCrystal_I2C.h>
                  const int stepsPerRevolution = 200;
                 Stepper steppermotor(stepsPerRevolution, 8, 9, 10, 11);
  byte colrins[LULS] = {23, 25, 27, 29}; // Connect to the column

Keypad keypad = Keypad(makeKeymap(keys), rowPins, colPins, ROWS

const int bufferSize = 10; // Maximum number of keys to store

const int buffer[bufferSize]; // Buffer to store pressed keys

int bufferIndex = 0; // Index to track position in the buffer
                 Keypad keypad = Keypad(makeKeymap(keys), rowPins, colPins, ROWS, COLS);
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27 #define IZC_ADDR 0x27
28 #define LCD_COLUMNS 20
29 #define LCD_LINES 4
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31 LiquidCrystal_IZC lcd(IZC_ADDR, LCD_COLUMNS, LCD_LINES);
32
   32
33
34 char medicines[5][20] = {"Aspirin", "Ibuprofen", "Acetaminophen", "Amoxicillin", "Metformin"};
35 void setup() {
37  // put your setup code here, to run once:
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39  lcd.init();
40  lcd.backlight();
                   lcd.init();
lcd.backlight();
   40 lcd.backlight(),
41 lcd.backlight(),
42 // Printing Me
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47 lcd.setCursor(
50 lcd.print(medi
51 lcd.setCursor(
52 // Setting Ste
53 steppermotor.s
54 steppermotor.s
55 }
56 void loop() {
58 char key = key
60
                     // Printing Medicines
                     lcd.setCursor(0, 0);
lcd.print(medicines[0]);
                    lcd.print(medicines[0]);
lcd.print(medicines[1]);
lcd.setCursor(0, 2);
                    lcd.print(medicines[2]);
lcd.setCursor(0, 3);
lcd.print(medicines[3]);
                    // Setting Stepper Motor Speed
steppermotor.setSpeed(60);
                    char key = keypad.getKey();
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                 if (key != NO_KEY) {
    // Store the pressed key in the buffer
    buffer[bufferIndex] = key;
    bufferIndex+e;
    // Check if the buffer is full or if 'Enter' key is pressed
    if (bufferIndex == 1 || key == '#') {
        int medicineno = buffer[0] - '0';
        lcd.clear();
        lcd.setCursor(0, 0);
        lcd.print("Enter ");
        lcd.print(medicines[medicineno]);
        lcd.print("quantity: ");

                              buffer[bufferIndex] = key;
bufferIndex++;
                              if (bufferIndex == 3 || key == '#') {
  int medicineIndex = buffer[0] - '0';
  int quantity = buffer[2] - '0';
                                  lcd.clear();
                                 lcd.clear();
lcd.set(ursor(0, 0);
lcd.print("Dispensing ");
lcd.print(quantity);
lcd.print("");
lcd.print(medicines[medicineIndex]);
                                  lcd.print("s");
steppermotor.step(quantity);
                                  // Clear the buffer
                                  bufferIndex = 0;
memset(buffer, 0, bufferSize);
```

Simulation Description



