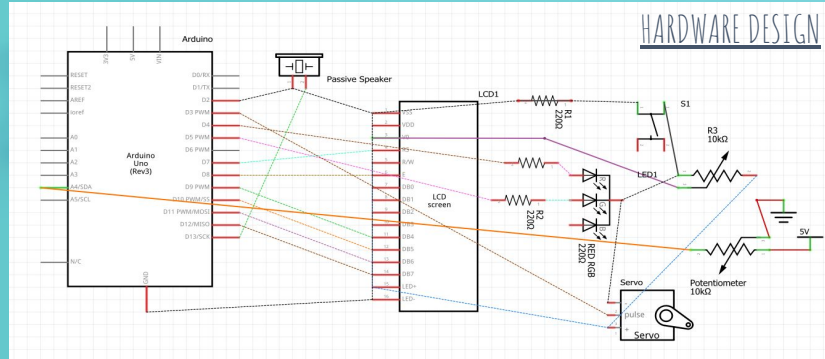


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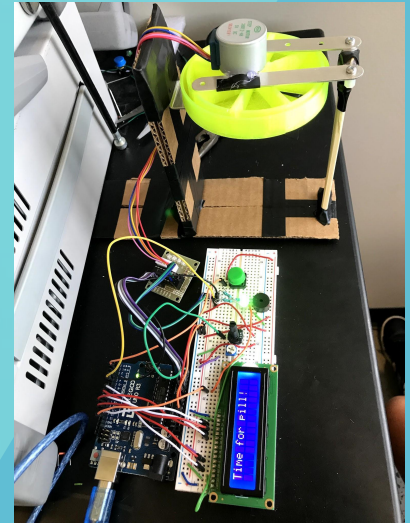
```
graph TD; A((LIGHT IS RED & TIMER COUNTS DOWN)) -- "LIGHT TURNS GREEN" --> B((ALARM SOUNDS)); B -- "TIMER = 0" --> C((SERVO ROTATES & RELEASES ONE PILL)); C -- "BUTTON PRESSED" --> A; A -- "PILL COUNT DECREASE BY 1" --> D[REPEAT FOR DOSE GIVEN]; D --> A;
```

The flowchart illustrates the software logic for a pill dispenser. It begins with a state where the light is red and the timer counts down. When the light turns green, the alarm sounds. Once the timer reaches zero, the servo rotates and releases one pill. When the button is pressed, the process loops back to the initial state. Additionally, the pill count is decreased by one, and the process repeats for the dose given.



- ❑ REGULATE THE AMOUNT OF PILLS TO BE ADMINISTERED IN A CERTAIN TIME FRAME ON A CERTAIN DAY
- ❑ ALERT CLIENT WITH SPEAKER WHEN PILLS ARE READY BASED ON A DISPLAYED TIMER
- ❑ SHOW COUNT OF PILLS LEFT BEFORE BOTTLE IS EMPTY & NEED REPLACING

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