Project Development Phase
Sprint-1

Team ID	PNT2022TMID19102
Project Name	Personal Assistant For Seniors Who Are Self Reliant

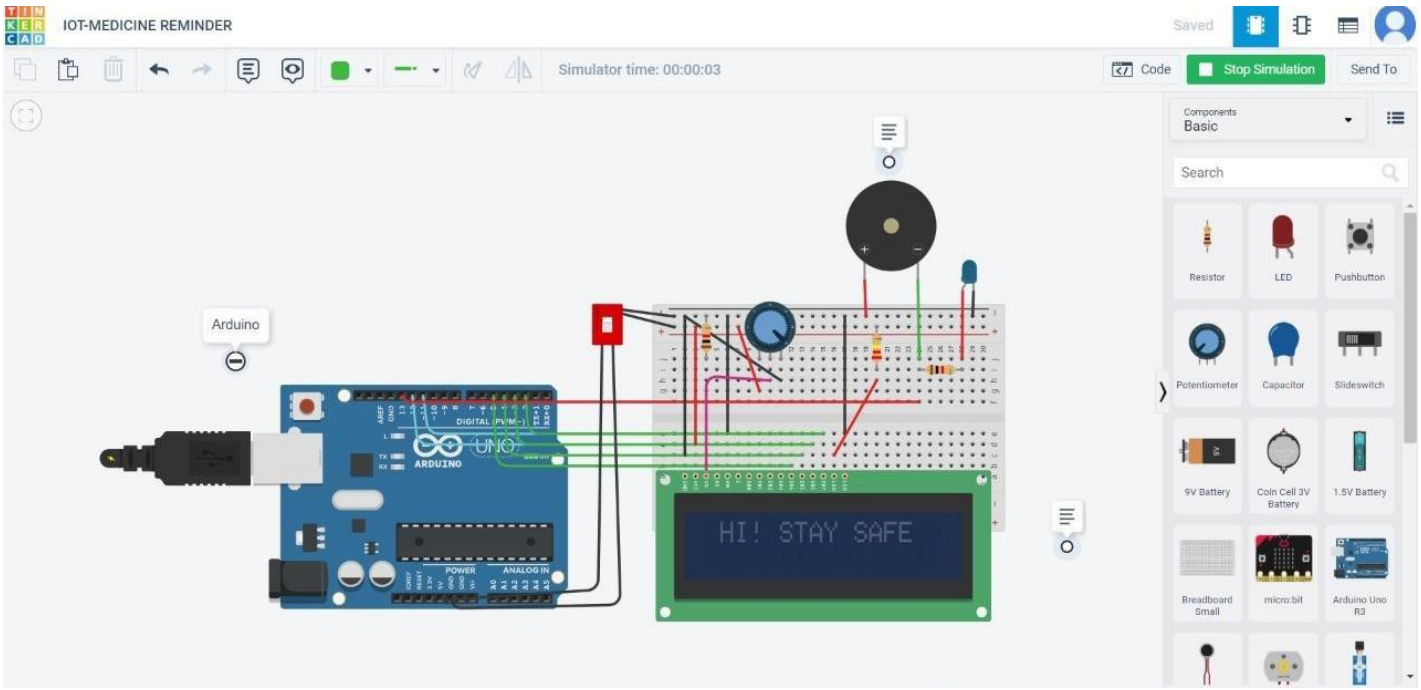
Sprint 1: simulation creation(connect sensor arduino with code)

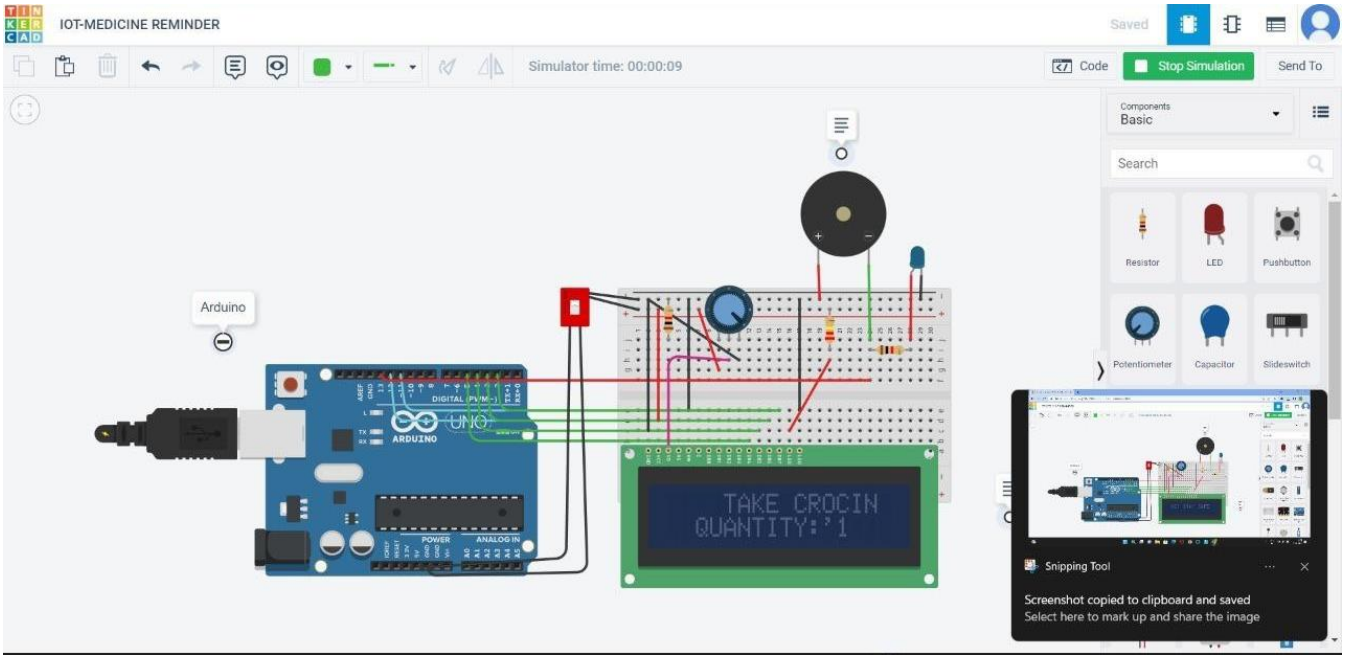
- create a arduino software for Personal Assistant For Seniors Who Are Self Reliant and medicine reminder using arduino uno.

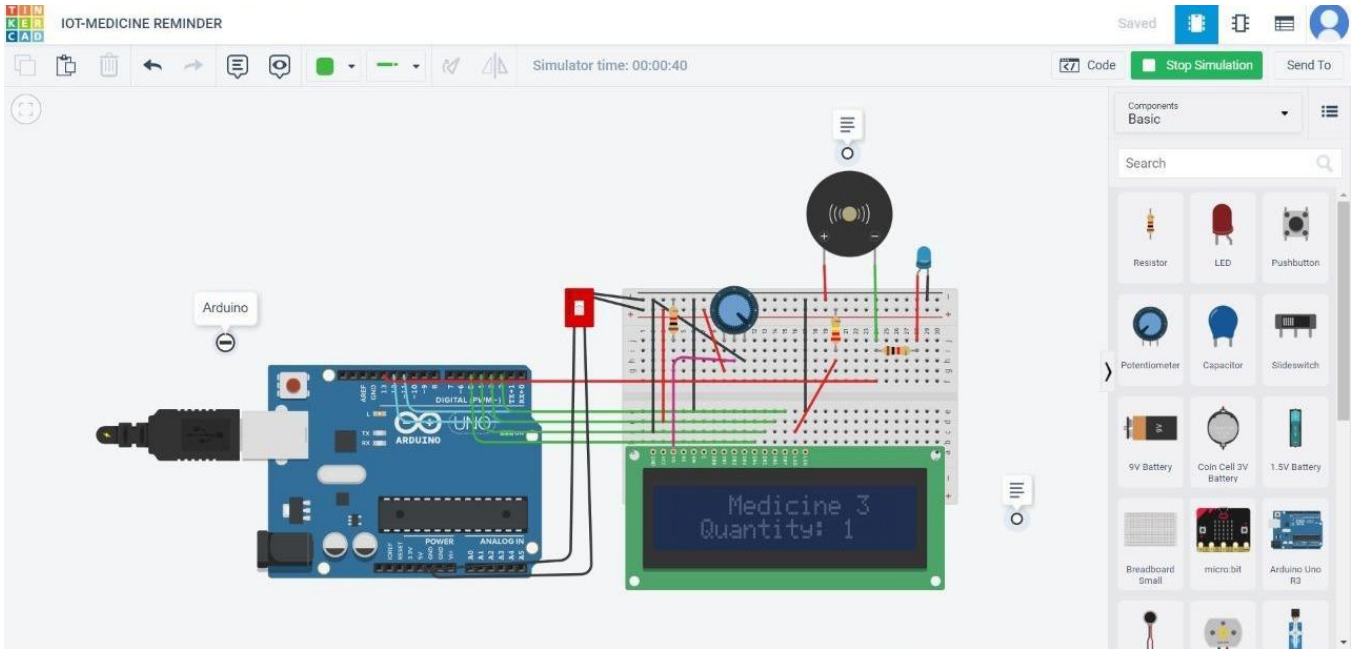
- **Component used:**

- Arduino Uno
- 16x2 LCD Display
- Buzzer
- Led(any color)
- Breadboard
- Push Buttons
- 10K Potentiometer
- 10K,1K Resistors
- Jumper Wires

SIMPLE IMAGE:




IOT-MEDICINE REMINDER
Saved
Simulator time: 00:00:09
Code
Stop Simulation
Send To
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
Arduino
TAKE CROCIN
QUANTITY:'1
Snipping Tool
Screenshot copied to clipboard and saved
Select here to mark up and share the image


IOT-MEDICINE REMINDER
Saved
Simulator time: 00:00:40
Code
Stop Simulation
Send To
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Arduino
Medicine 3
Quantity: 1

SOURCE CODE:

```
#include <LiquidCrystal.h>


#define D4 5
#define D5 4
#define D6 3
#define D7 2
#define E 11
#define RS 12

int buzz= 13;
int led = 13;
const int rs =12, en = 11, d4 = 5, d5 = 4, d6 = 3, d7 = 2 ;
LiquidCrystal LCD( 12, 11, 5, 4, 3, 2);


void setup()
{
  LCD.begin(16, 2);
  Serial.begin(9600);
  pinMode(buzz,  OUTPUT);

  // set up the LCD's number of columns and rows:
  LCD.begin(16, 2);
  pinMode(9,OUTPUT);
  pinMode(8,OUTPUT);
  pinMode(7,INPUT);
  pinMode(2, INPUT);
  pinMode(13,  OUTPUT);
}

void loop()
{
  digitalWrite(9,0);
  digitalWrite(8,1);
  delay(2000);
  LCD.print(" HI! STAY SAFE");
  delay(3000);
  LCD.clear();
```

```
delay(5000);
digitalWrite(9,0);
digitalWrite(8,1);
LCD.setCursor(4, 0);
tone(buzz,1500,3000);
LCD.print("TAKE CROCIN");
LCD.setCursor(2, 1);
LCD.print("QUANTITY:'1");
digitalWrite(led, HIGH);
delay(2000);
digitalWrite(led, LOW);
delay(2000);
//digitalWrite(buzz, HIGH);
delay(2000);
//digitalWrite(buzz, LOW);
LCD.clear();
delay(5000);
digitalWrite(9,1);
digitalWrite(8,0);
delay(2000);
digitalWrite(9,0);
digitalWrite(8,1);
LCD.setCursor(4, 0);
tone(buzz,1500,3000);
LCD.print("Medicine  2");
LCD.setCursor(2, 1);
LCD.print("Quantity: 3");
digitalWrite(led, HIGH);
delay(3000);
digitalWrite(led, LOW);
delay(2000);
//digitalWrite(buzz, HIGH);
delay(5000);
//digitalWrite(buzz, LOW);
LCD.clear();
delay(5000);
digitalWrite(9,1);
digitalWrite(8,0);
delay(5000);
digitalWrite(9,0);
digitalWrite(8,1);
```

```
  LCD.setCursor(4, 0);
  tone(buzz,1500,3000);
  LCD.print("Medicine  3");
  LCD.setCursor(2, 1);
  LCD.print("Quantity: 1");
  digitalWrite(led, HIGH);
  delay(5000);
  digitalWrite(led, LOW);
  delay(2000);
  //digitalWrite(buzz, HIGH);
  delay(3000);
 //  digitalWrite(buzz, LOW);
  LCD.clear();
  delay(8000);

}
```