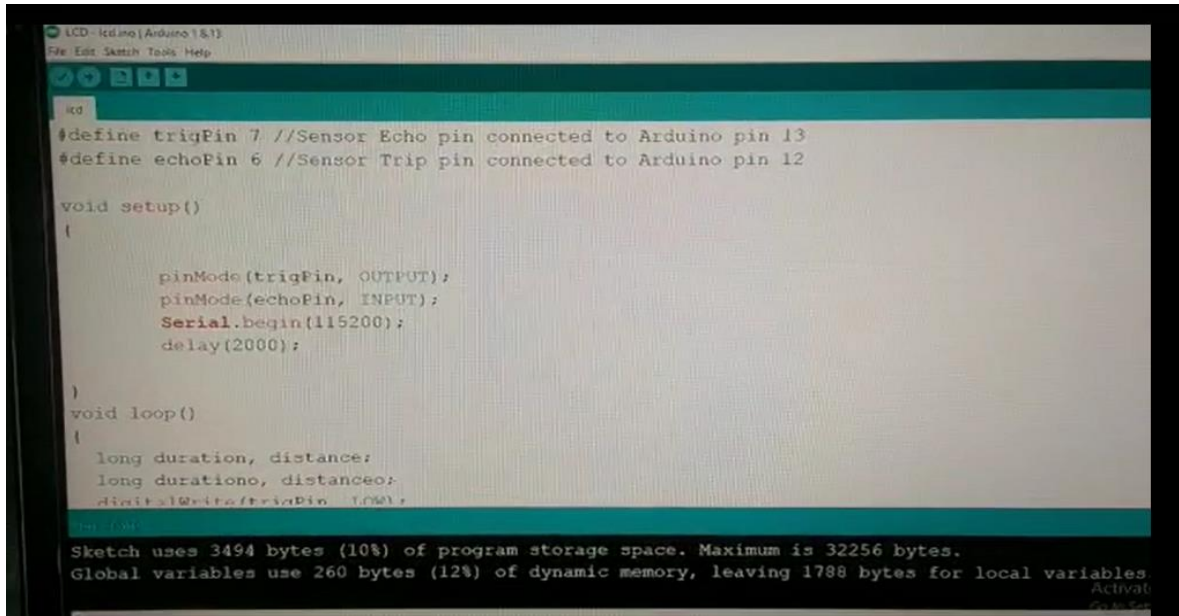


SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

TEAM ID:PNT2022TMID30690

FINAL CODING:

SCREENSHOTS:



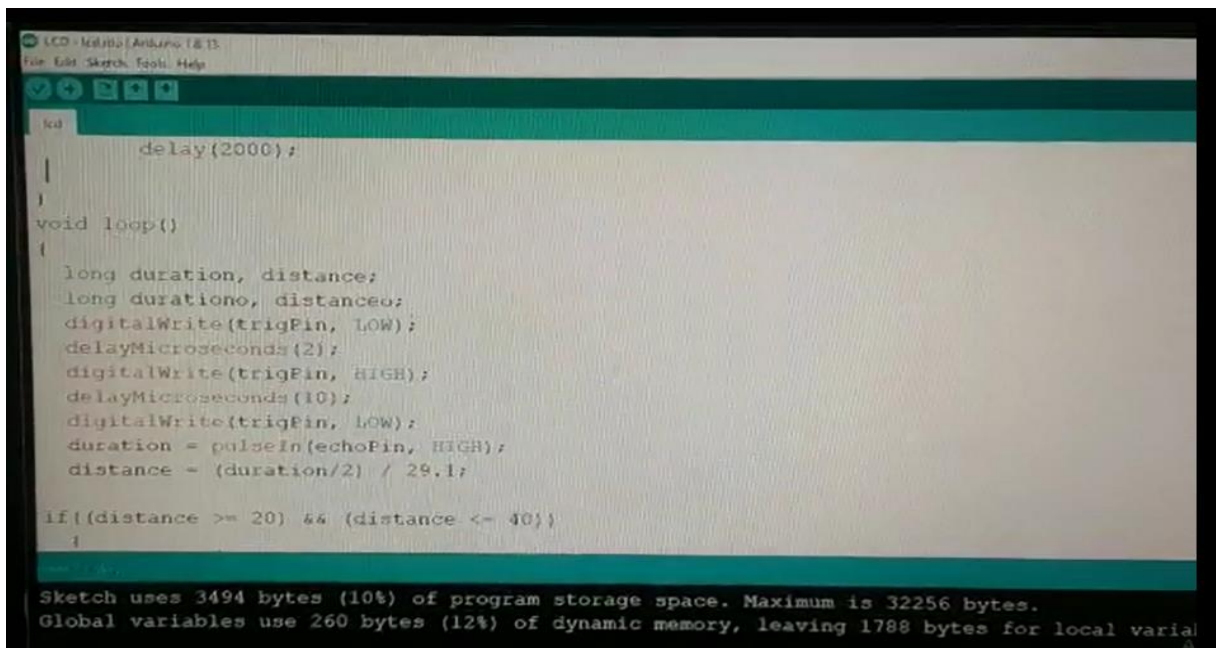
```
LCD - lcdino[Arduino 1.8.13]
File Edit Sketch Tools Help

lcd
#define trigPin 7 //Sensor Echo pin connected to Arduino pin 13
#define echoPin 6 //Sensor Trip pin connected to Arduino pin 12

void setup()
{
    pinMode(trigPin, OUTPUT);
    pinMode(echoPin, INPUT);
    Serial.begin(115200);
    delay(2000);
}

void loop()
{
    long duration, distance;
    long durationo, distanceo;
    digitalWrite(trigPin, LOW);
```

Sketch uses 3494 bytes (10%) of program storage space. Maximum is 32256 bytes.
Global variables use 260 bytes (12%) of dynamic memory, leaving 1788 bytes for local variables.
Activated
Go to Top



```
LCD - lcdino[Arduino 1.8.13]
File Edit Sketch Tools Help

lcd
    delay(2000);
}
void loop()
{
    long duration, distance;
    long durationo, distanceo;
    digitalWrite(trigPin, LOW);
    delayMicroseconds(2);
    digitalWrite(trigPin, HIGH);
    delayMicroseconds(10);
    digitalWrite(trigPin, LOW);
    duration = pulseIn(echoPin, HIGH);
    distance = (duration/2) / 29.1;

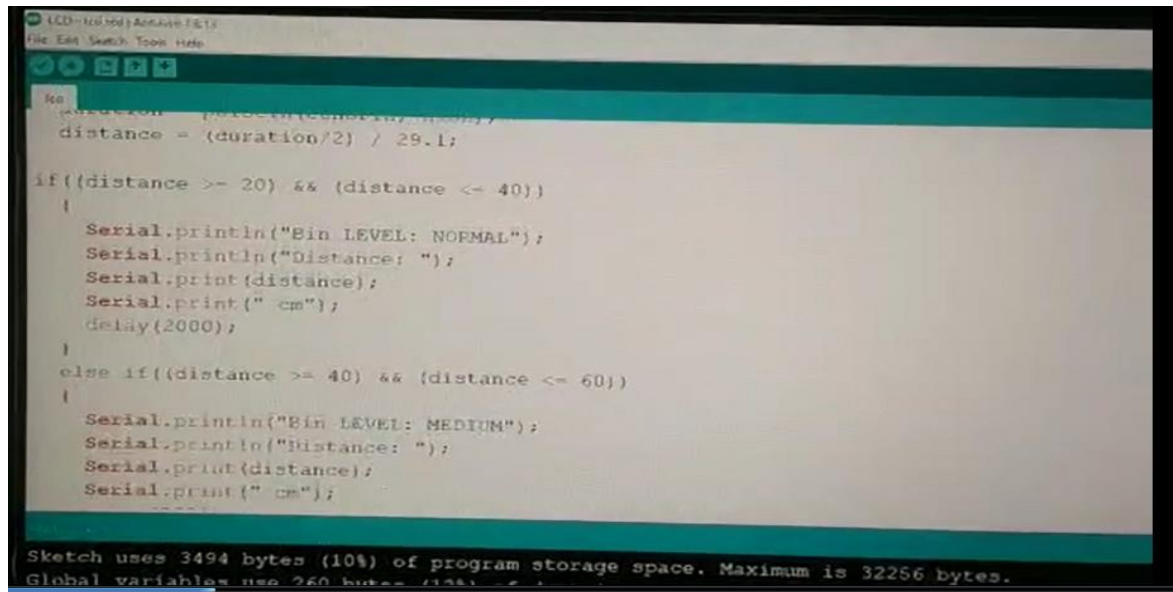
    if((distance >= 20) && (distance <= 40))
    {

```

Sketch uses 3494 bytes (10%) of program storage space. Maximum is 32256 bytes.
Global variables use 260 bytes (12%) of dynamic memory, leaving 1788 bytes for local variables.
Activated
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SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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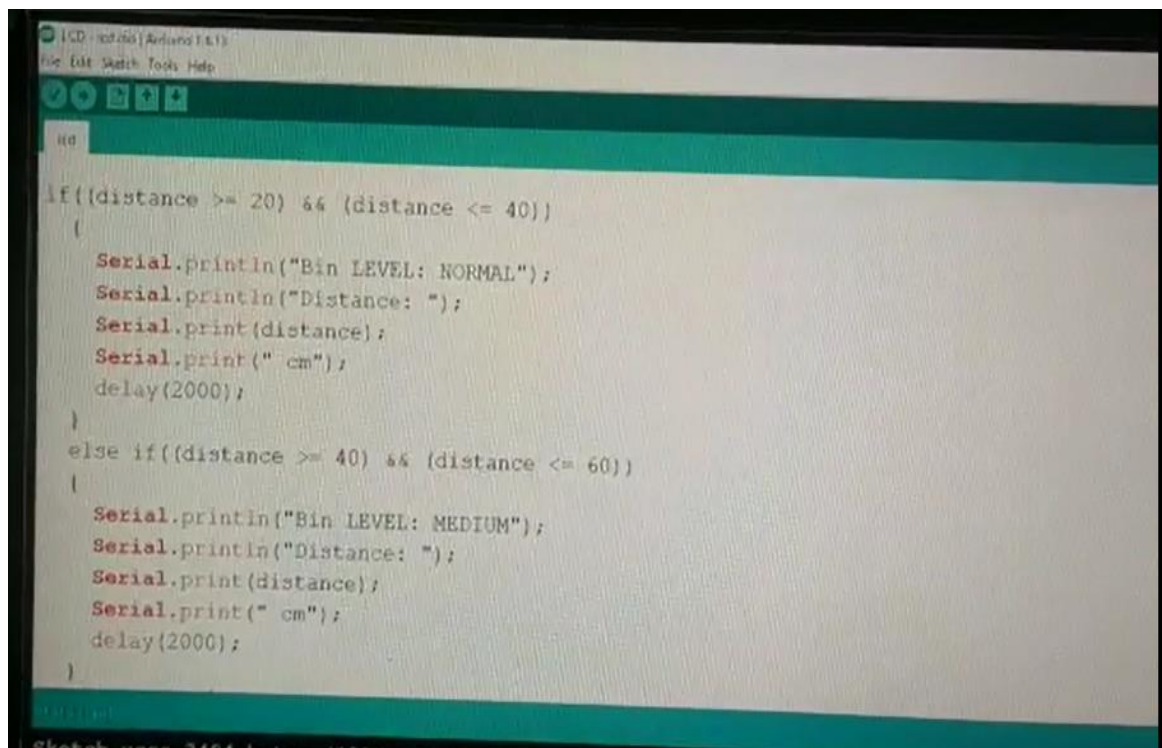


```
void setup() {
  Serial.begin(9600);
}

void loop() {
  duration = pulseIn(ECHO_PIN, HIGH);
  distance = (duration/2) / 29.1;

  if((distance >= 20) && (distance <= 40))
  {
    Serial.println("Bin LEVEL: NORMAL");
    Serial.println("Distance: ");
    Serial.print(distance);
    Serial.print(" cm");
    delay(2000);
  }
  else if((distance >= 40) && (distance <= 60))
  {
    Serial.println("Bin LEVEL: MEDIUM");
    Serial.println("Distance: ");
    Serial.print(distance);
    Serial.print(" cm");
    delay(2000);
  }
}

Sketch uses 3494 bytes (10%) of program storage space. Maximum is 32256 bytes.
Global variables use 260 bytes (1.3%) of RAM. Maximum is 2048 bytes.
```



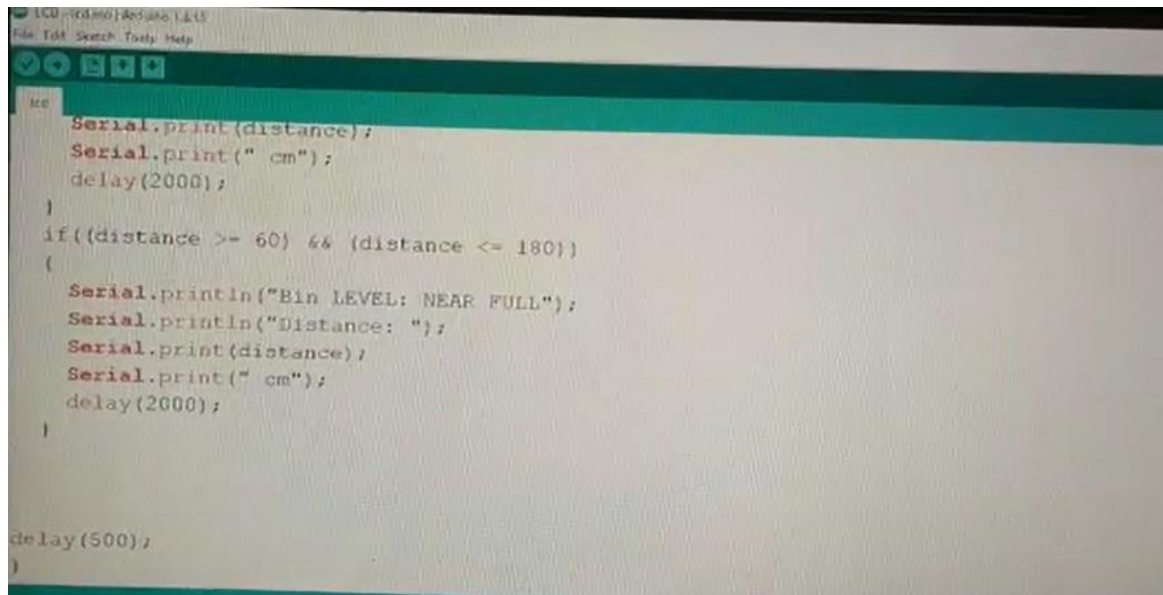
```
void setup() {
  Serial.begin(9600);
}

void loop() {
  if((distance >= 20) && (distance <= 40))
  {
    Serial.println("Bin LEVEL: NORMAL");
    Serial.println("Distance: ");
    Serial.print(distance);
    Serial.print(" cm");
    delay(2000);
  }
  else if((distance >= 40) && (distance <= 60))
  {
    Serial.println("Bin LEVEL: MEDIUM");
    Serial.println("Distance: ");
    Serial.print(distance);
    Serial.print(" cm");
    delay(2000);
  }
}

Sketch uses 3494 bytes (10%) of program storage space. Maximum is 32256 bytes.
Global variables use 260 bytes (1.3%) of RAM. Maximum is 2048 bytes.
```

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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The image shows a screenshot of an Arduino IDE code editor. The code is written in C++ and is designed to monitor a distance sensor. It includes a loop that prints the distance in centimeters and a conditional statement that triggers a 'NEAR FULL' alert when the distance is between 60 and 180 cm.

```
Serial.print(distance);  
Serial.print(" cm");  
delay(2000);  
}  
if((distance >= 60) && (distance <= 180))  
{  
  Serial.println("Bin LEVEL: NEAR FULL");  
  Serial.println("Distance: ");  
  Serial.print(distance);  
  Serial.print(" cm");  
  delay(2000);  
}  
  
delay(500);  
}
```