```
// Define pins for first sensor
const int trigPin1 = 2;
const int echoPin1 = 3;

// Define pins for second sensor
const int trigPin2 = 4;
const int echoPin2 = 5;

// Define LED pin
const int ledPin = 7;

// Define variables
long duration1, duration2;
int distance1, distance2;
float speed;

void setup() {
  pinMode(trigPin1, OUTPUT);
  pinMode(echoPin1, INPUT);
  pinMode(trigPin2, OUTPUT);
  pinMode(echoPin2, INPUT);
  pinMode(ledPin, OUTPUT);
  Serial.begin(9600); // Initialize serial communication for debugging
}

void loop() {
  // Measure distance for first sensor
  distance1 = measureDistance(trigPin1, echoPin1);

  // Measure distance for second sensor
  distance2 = measureDistance(trigPin2, echoPin2);
```

```
  // Calculate speed based on time difference between sensors
  float timeDifference = abs(duration1 - duration2) / 700.0; // Convert microseconds to seconds
  float distanceBetweenSensors = 10; // Distance between sensors in centimeters

  // Check for division by zero
  if (timeDifference != 0) {
    speed = distanceBetweenSensors / timeDifference * 3.6; // Convert speed to km/h

    // Output speed to serial monitor
    Serial.print("Speed: ");
    Serial.print(speed);
    Serial.println(" km/h");

    // If speed is greater than or equal to 60 km/h, turn on the LED, else turn it off
    if (speed >= 60) {
      digitalWrite(ledPin, HIGH);
    } else {
      digitalWrite(ledPin, LOW);
    }
  } else {
    Serial.println("Error: Division by zero");
  }

  delay(500); // Delay for stability
}

int measureDistance(int trigPin, int echoPin) {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
```

```
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  long duration = pulseIn(echoPin, HIGH);
  int distance = duration * 0.034 / 2;

  // Print raw distance readings for debugging
  Serial.print("Distance: ");
  Serial.println(distance);

  // Store duration for speed calculation
  if (trigPin == trigPin1) {
    duration1 = duration;
  } else if (trigPin == trigPin2) {
    duration2 = duration;
  }

  return distance;
}
```