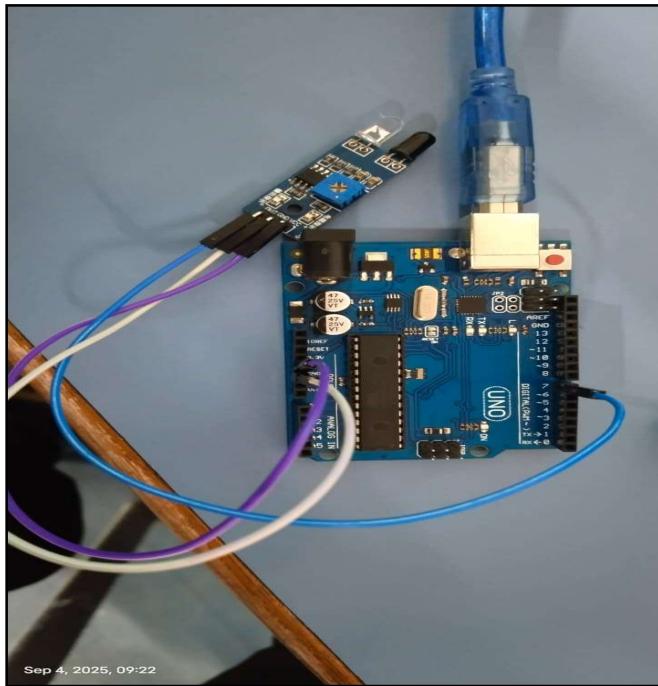**CODE**

```
int IRSensor = 2;   // IR sensor connected to digital pin 2
int LED = 13;       // Onboard LED on pin 13


void setup() {
  pinMode(IRSensor, INPUT);   // IR sensor pin as input
  pinMode(LED, OUTPUT);       // LED pin as output
  Serial.begin(9600);         // For serial monitor debugging
}


void loop() {
  int sensorValue = digitalRead(IRSensor);  // Read IR sensor

  if (sensorValue == LOW) {  // Object detected (most IR sensors give LOW)
    digitalWrite(LED, HIGH); // Turn ON LED
    Serial.println("Object Detected!");
  }
  else {              // No object
    digitalWrite(LED, LOW);  // Turn OFF LED
    Serial.println("No Object");
  }

  delay(200); // Small delay for stability
}
```

Sep 4, 2025, 09:22