THE EDUCATORS

A Project of Beaconhouse

AI Robotics WINTER Teacher Training Workshop (January 1st & 2nd, 2026)


Anwar
Robtics and AI teacher
Meta AI


Click to edit
Master title style
FPPT.com


AI 2026
WORKSHOP
SERIES
Meta AI

Objectives

Learn how to integrate AI and robotics WITH SOFTWARE AND HARDWARE.

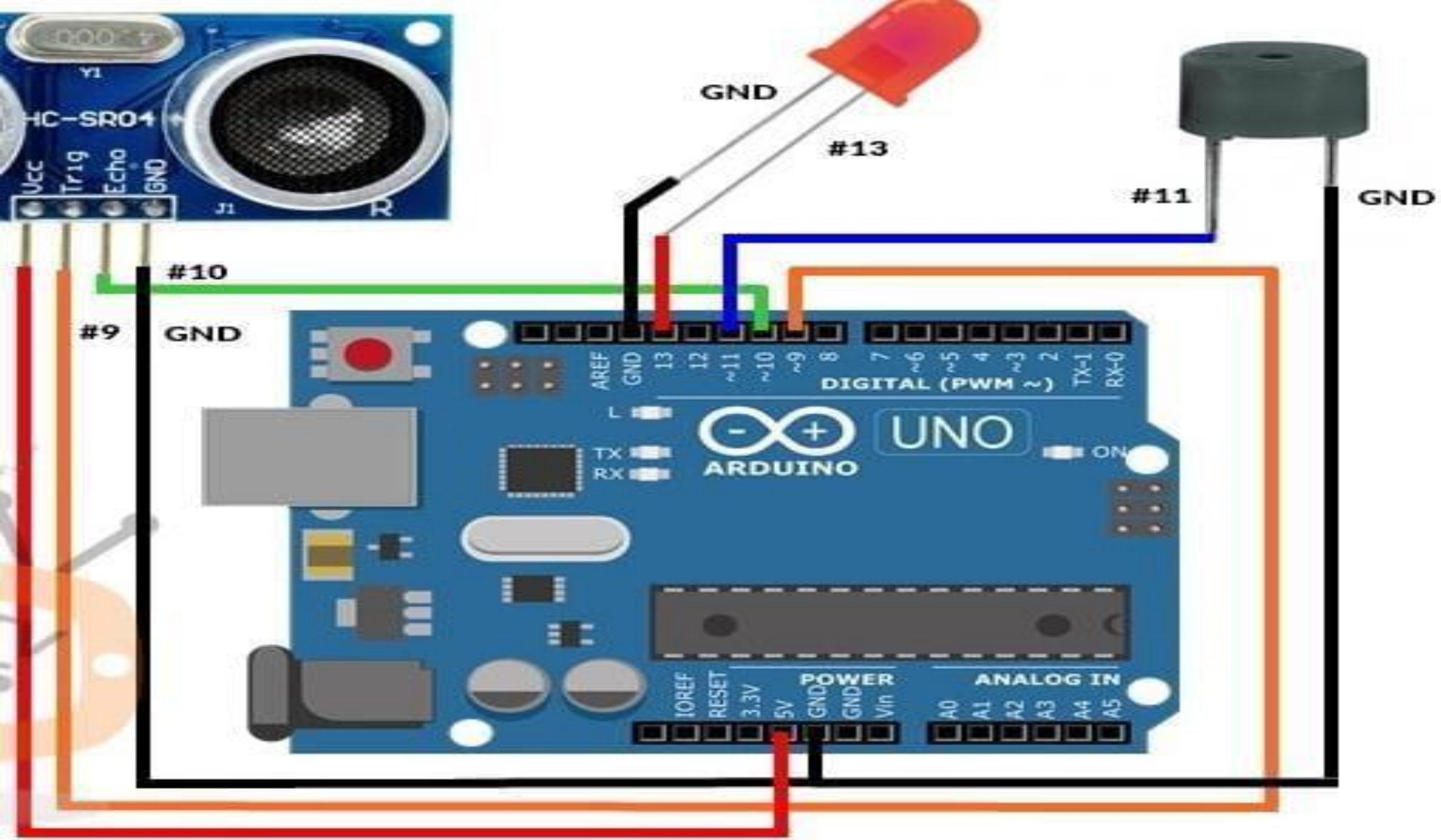
Gain hands-on experience with robotics hardware and software.

Develop coding skills WITH THE HELP OF AI for robotics applications.

Explore circuit diagrams and electronic components relevant to robotics PROJECT .

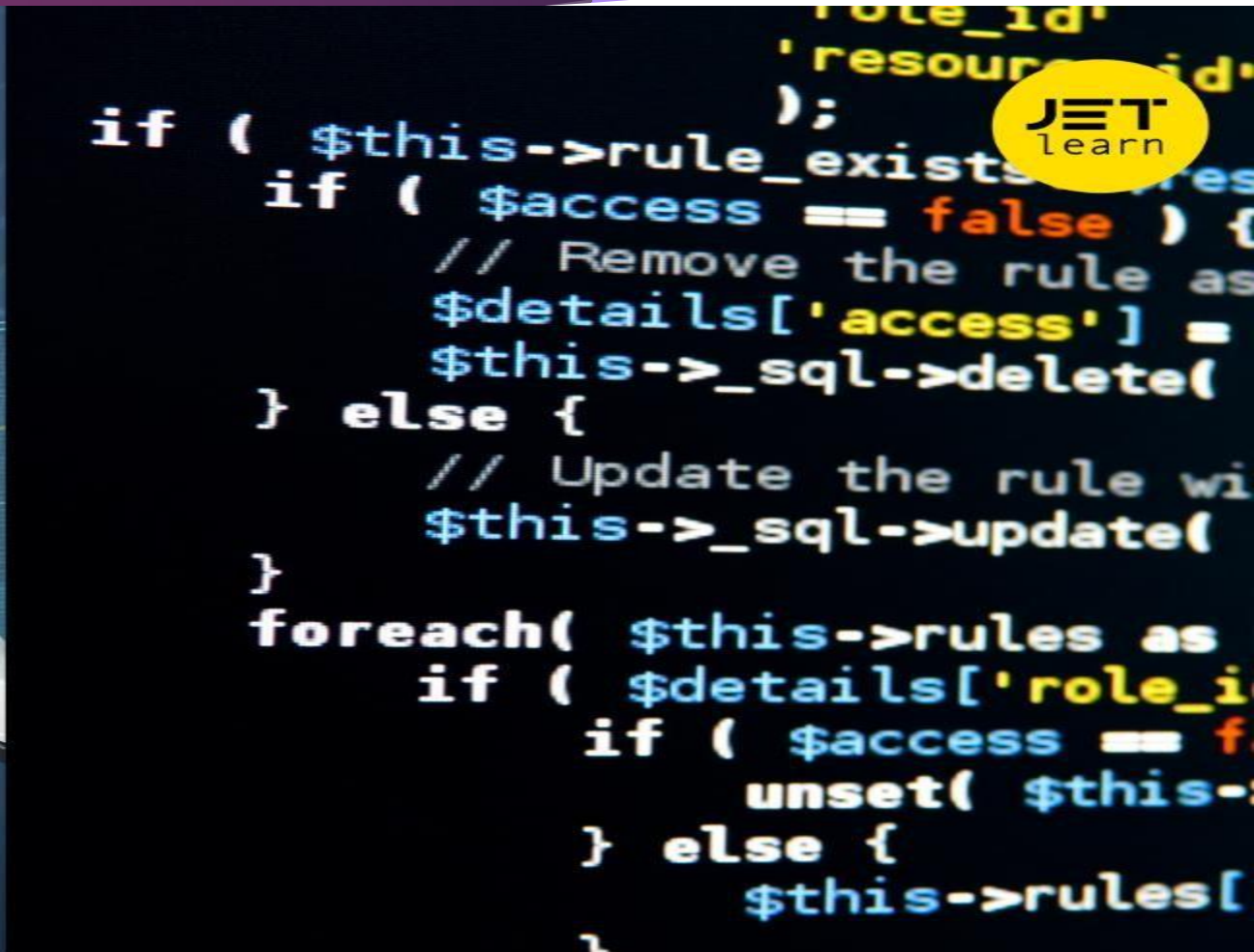
Learn how to troubleshoot common robotics challenges.

☺🤖🔊💡□


HC-SR04
Vcc
Trig
Echo
GND
GND
#13
#11
GND
#10
#9
GND
AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX→1
RX←0
DIGITAL (PWM ~)
L
TX
RX
ARDUINO
UNO
ON
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
GND
Vin
A0
A1
A2
A3
A4
A5

Robotics and Coding

How to Generate Coding for Robotics with AI □ ✨



// made by SIR ANWAR AI ROBOTICS

```
const int trigPin = 9;const int echoPin = 10;const int buzzer = 11;const int ledPin = 13;// defines variables``long duration;int distance;int safetyDistance;void setup() {pinMode(trigPin, OUTPUT); // Sets the trigPin as an OutputpinMode(echoPin, INPUT); // Sets the echoPin as an InputpinMode(buzzer, OUTPUT);pinMode(ledPin, OUTPUT);Serial.begin(9600); // Starts the serial communication}void loop() {// Clears the trigPindigitalWrite(trigPin, LOW);delayMicroseconds(2);// Sets the trigPin on HIGH state for 10 micro secondsdigitalWrite(trigPin, HIGH);delayMicroseconds(10);digitalWrite(trigPin, LOW);// Reads the echoPin, returns the sound wave travel time in microsecondsduration = pulseIn(echoPin, HIGH);// Calculating the distancedistance= duration*0.034/2;safetyDistance = distance;if (safetyDistance <= 5){  digitalWrite(buzzer, HIGH);  digitalWrite(ledPin, HIGH);}else{  digitalWrite(buzzer, LOW);  digitalWrite(ledPin, LOW);}// Prints the distance on the Serial MonitorSerial.print("Distance: ");Serial.println(distance);}
```

THANK YOU