

code and connections in wokwi for ultrasonic sensor

Code:

```
#ifndef Ultrasonic_h
#define Ultrasonic_h

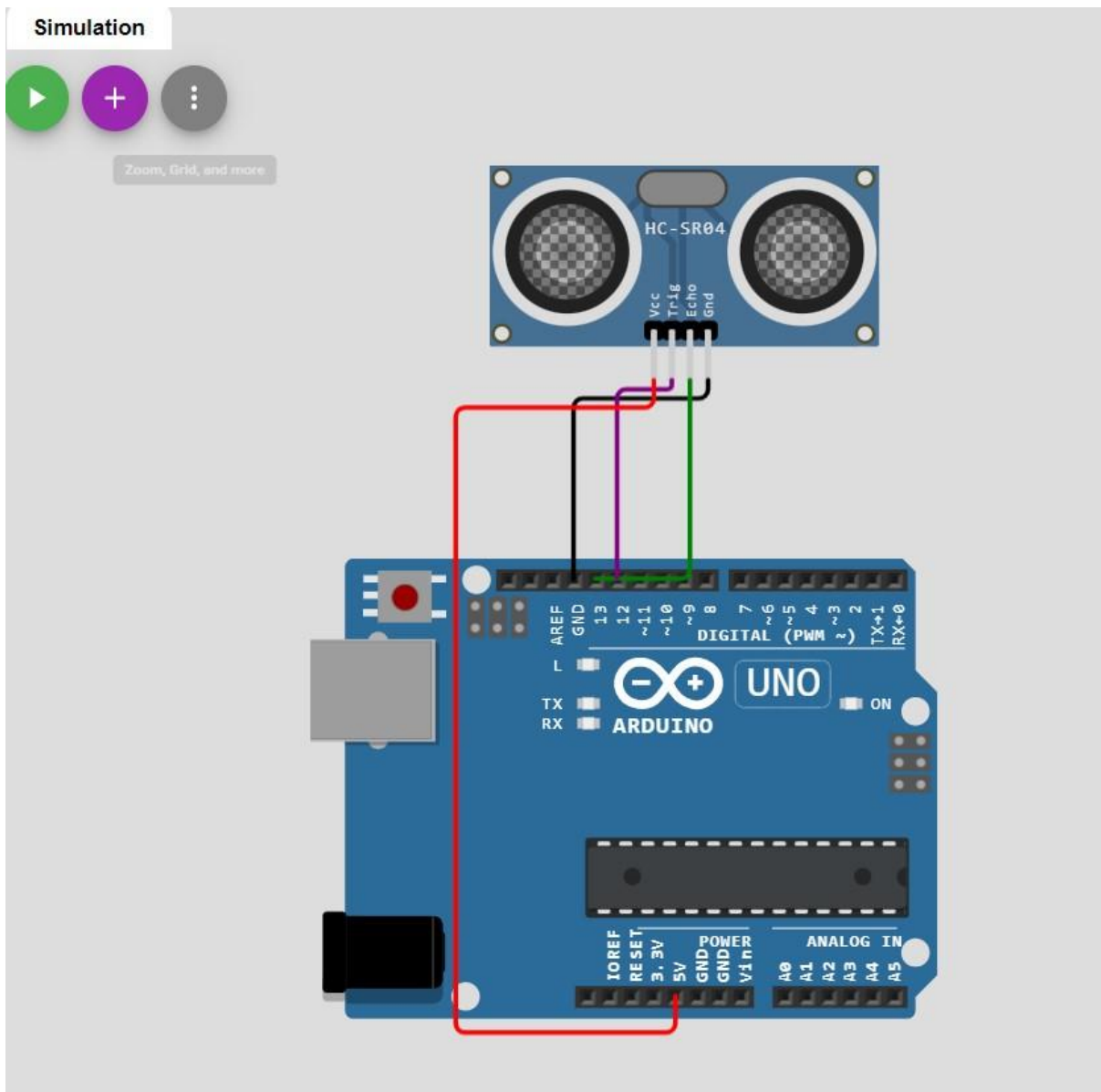
/*
 * Values of divisors
 */
#define CM 28
#define INC 71

class Ultrasonic {
public:
    Ultrasonic(uint8_t sigPin) : Ultrasonic(sigPin, sigPin) {};
    Ultrasonic(uint8_t trigPin, uint8_t echoPin, unsigned long timeOut
= 20000UL);
    unsigned int read(uint8_t und = CM);
    unsigned int distanceRead(uint8_t und = CM) __attribute__
((deprecated ("This method is deprecated, use read() instead.")));
    void setTimeout(unsigned long timeOut) {timeout = timeOut;}
    void setMaxDistance(unsigned long dist) {timeout = dist*CM*2;}

private:
    uint8_t trig;
    uint8_t echo;
    boolean threePins = false;
    unsigned long previousMicros;
    unsigned long timeout;
    unsigned int timing();
};

#endif // Ultrasonic_h
```

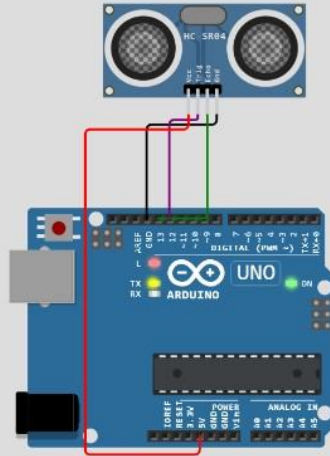
Stimulation:



Simulation



00:25.399 99%



Distance in Inches: 41
Distance in CM: 104
Distance in Inches: 41
Distance in CM: 104
Distance in Inches: 41
Distance in CM: 105
Distance in Inches: 41