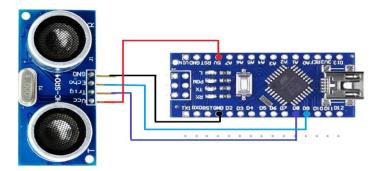
## **DISTANCE MEASURING MODULE**

Distance measuring module is an instrunment which measures the distance of object which is infront if it. It is developed with the two major components Ultrasonic Sensor (Generate ultrasonic sound and generate pulse generated by the travelling sound which have returned after colliding with any objects) and Arduino Nano (kind of programmable chip). Its working mechanism is simple it work on the basis of pulse signal generated by ultrasonic sensor. First of all high signal is given to ultrasonic sensor and after some time low signal is given to ultrasonic sensor, through which one wave of ultrasonic sound is completed. When that ultrasonic sound is collide to the object and returned to the ultrasonic sensor, sensor provide that duration in the form of pulse signal which arduino nano recives and processes that pulse signal to centimeter and gives the output is serial monitor (Screen) and this task is repeated until the arduino gets shut down. Its limitation is upto 5 meters it gives accurate result.

## **CIRCUIT:**



## **CODE:**