

Components required:

- ⦿ Ultrasonic sensor
- ⦿ Vibration module
- ⦿ Arduino UNO
- ⦿ Bread board

Connection procedure:

Reset: Resets the microcontroller

- ⦿ Analog Pins(A0 – A5)

Used to provide analog input in the range of 0-5V

- ⦿ Input/Output Pins:(Digital Pins 0 – 13)

Can be used as input or output pins.

- ⦿ Serial:(0(Rx), 1(Tx))

Used to receive and transmit TTL serial data

- ⦿ Power(Vin, 3.3V, 5V, GND)

- ⦿ Vin: Input voltage to Arduino when using an external power source.

- ⦿ 5V: Regulated power supply used to power microcontroller and other components on the board.

- ⦿ 3.3V: 3.3V supply generated by on-board voltage regulator. Maximum current draw is 50mA.

- ⦿ GND: ground pins.

- ⦿ External Interrupts:(2, 3)

- ⦿ To trigger an interrupt.

- ⦿ PWM:(3, 5, 6, 9, 11)

- ⦿ Provides 8-bit PWM output.

- ⦿ SPI:(10 (SS), 11 (MOSI), 12 (MISO) and 13 (SCK))

- ⦿ Used for SPI communication

- ⦿ Inbuilt LED:(13)

- To turn on the inbuilt LED.
- TWI:(A4 (SDA), A5 (SCA))
- Used for TWI communication.

