Experiment No. 02

+5V from USB port

Arduino Uno

D8

D13

GND

A B

C D

push button

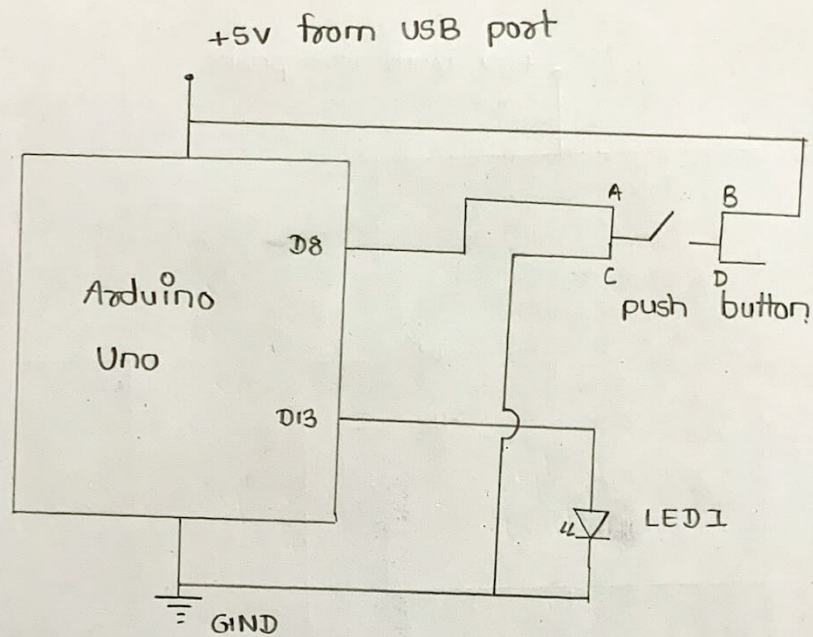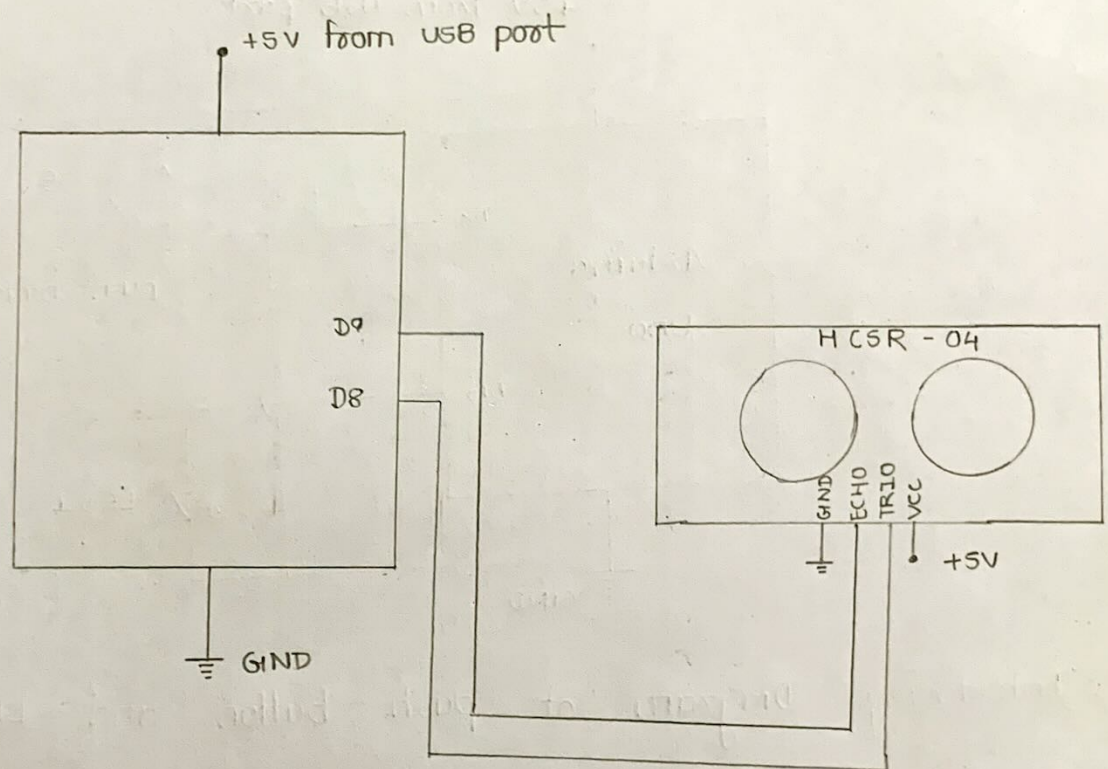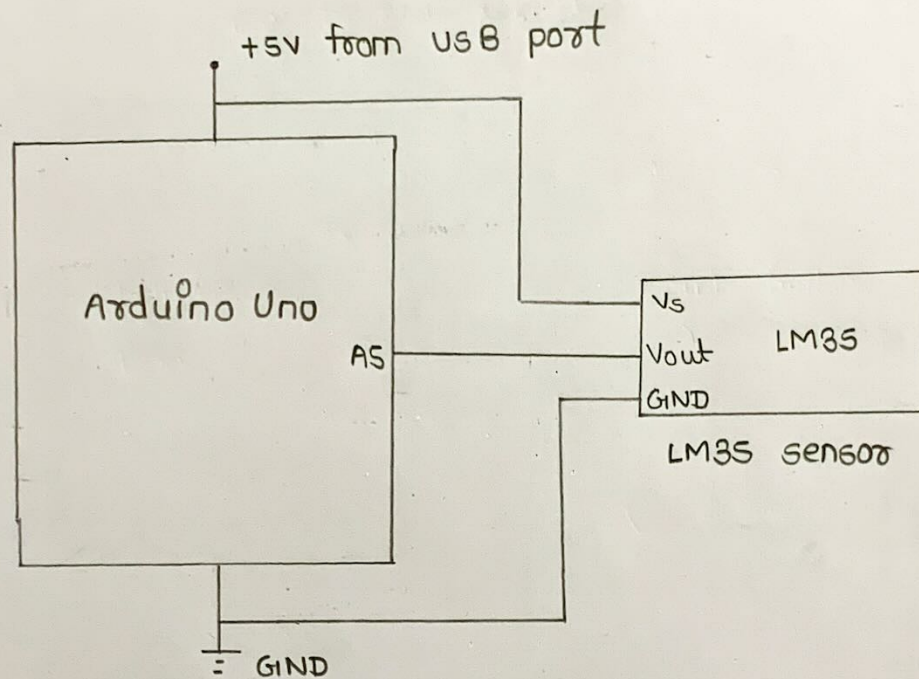LED 1

Interfacing Diagram of push button and LED with Arduino Uno.

Experiment No. 02

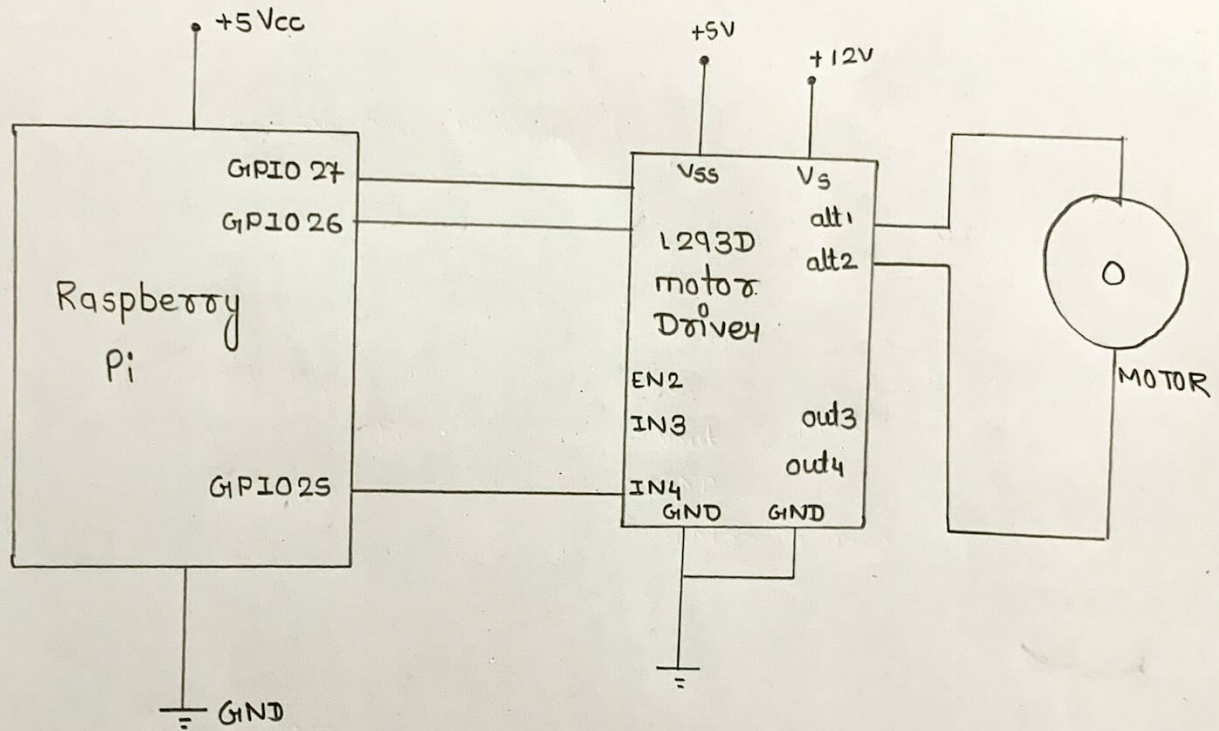Interfacing Diagram of Ultrasonic Distance sensor with Arduino Uno.

Experiment   No. 03

+5V from USB port

Arduino Uno

A5

Vs

Vout   LM35

GND

LM35 sensor

GND

Interfacing Diagram of LM35 with Arduino Uno.

Experiment No. 04

+5 Vcc

+5V

+12V

```
                                    VSS        VS
            GPIO 27                             alt1
            GPIO 26             L293D
                                motor           alt2
    Raspberry                   Driver
       Pi
                                EN2
                                IN3             out3
                                                out4
            GPIO 25             IN4
                                GND        GND
```

GND
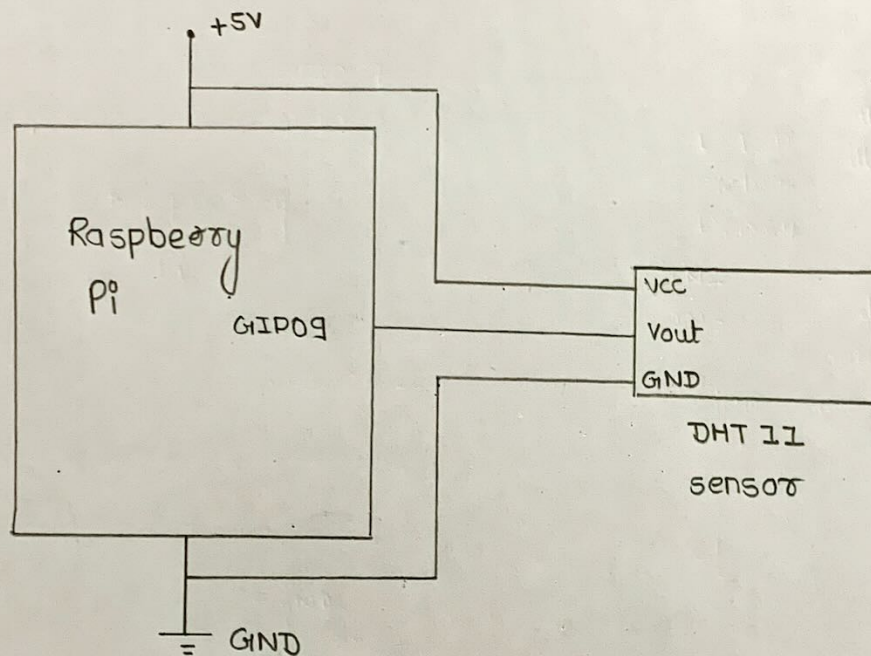
MOTOR

Interfacing   DC   motor   with   Raspberry Pi.

Experiment No. 05

Interfacing   DHT11   sensor   with   Raspberry   Pi

Experiment No. 07

+5V from USB port

Arduino
Uno

(Rx)
10

11
(Tx)

Key
vcc
GND   HC-05
TXD   MODULE
RXD
state

HC-05 Bluetooth
MODULE

GND
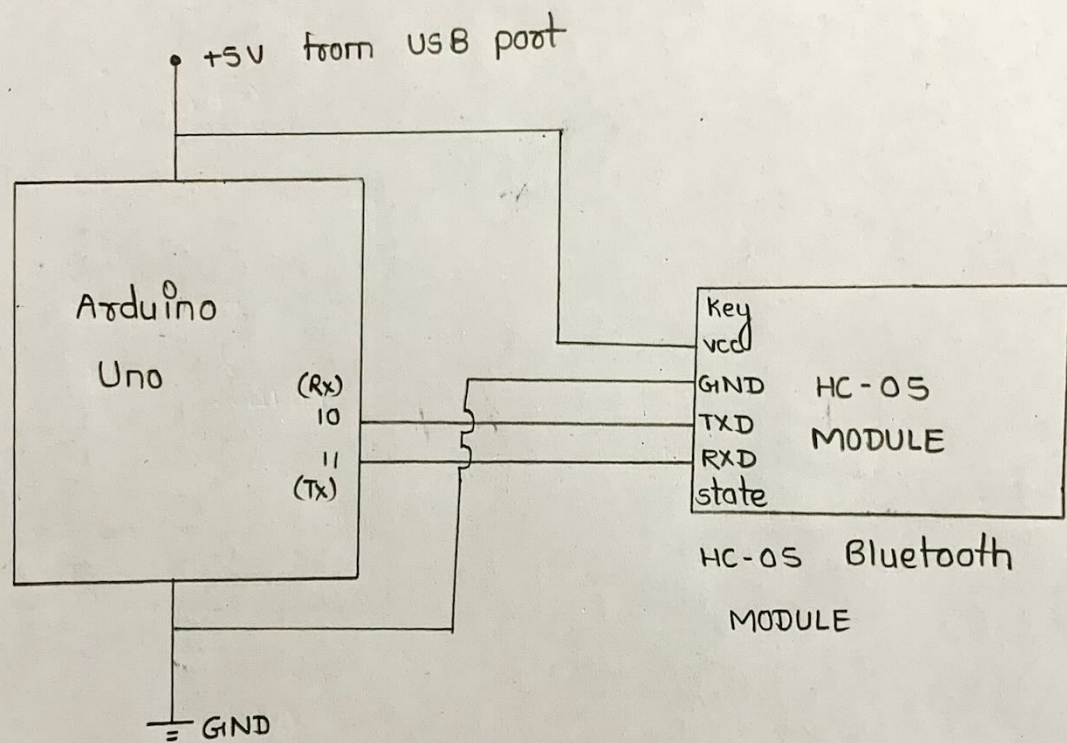
Interfacing Diagram of HC-05 Bluetooth module
with Arduino

Experiment No. 08