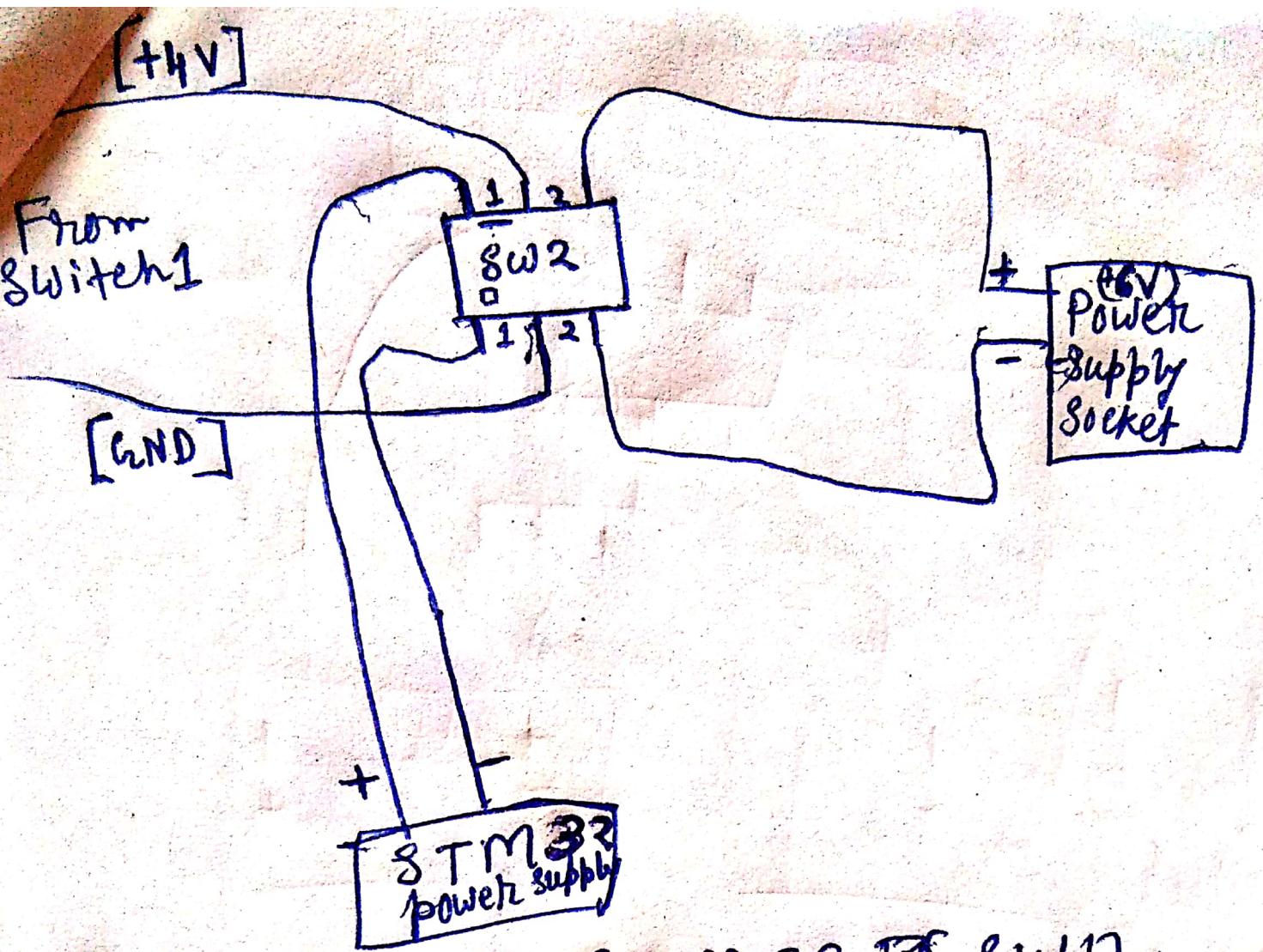


\* 4V দ্বাৰা আৰ্থিক কৰাটে STM কৰ Supply কৰ  
কৰতে, charge ৰচ। By an another  
switch.

- ① এই position কৰতে STM কৰ Supply
- ② এই position কৰতে charge (ৰচ) কৰতে মোটৰ কৰ  
বৰ্তা (+8V) Supply কৰি inverter



- ① at position -> STM32 supply
- ② at position > Power Supply current battery

(1) Bluetooth → TX — PA-3 → RX (STM)  
 RX — PA-2 → TX (STM) Serial 2  
 State — PA-8

(2) i) WiFi → TX — PA-10 → RX (STM)  
 RX — PA-9 → TX (STM) Serial 1

(2) ii) RF → Data — PB-12 3.3V  
 (3) iii) NRF → SCK — PA-5  
 MISO — PA-6 3.3  
 MOSI — PA-7  
 CSN — PB-4 5  
 CE — PA-4

|   |                        |
|---|------------------------|
| A | LCD Display            |
| B | R <sub>G</sub> — PB-11 |
| C | E — PB-10              |
| D | D4 — PB-6              |
| E | D5 — PB-7              |
| F | D6 — PB-8              |
| G | D7 — PB-9              |
| H | 4-Button               |
| I | (U)BT1 — PB-14         |
| J | (D)BT2 — PA-15         |
| K | (L)BT3 — PB-3 3.3      |
| L | (R)BT4 — PB-5          |
| M | PB-8                   |

(4) Motor Driver — IN1 — PB-9  
 IN2 — PB-10  
 IN3 — PB-11  
 IN4 — PB-12  
 IN5 — PB-13

(5) Distance Sensor → trig — PA-13 → Blue  
 echo — PA-14 → 5v Green

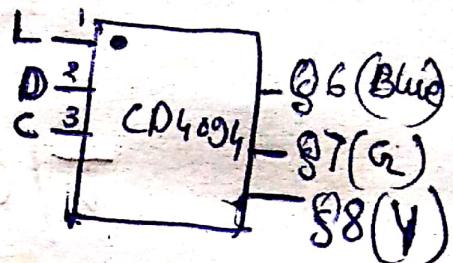
(6) LED

(7) Vibration Sensor

(8) Shift Register → shift — PB-14 CLK — PB-13 Data — PB-15  
 (1) (3) (2) (3)

S4595  
Q1 → LCD  
Q1 → Display  
Q2 → D6  
Q3 → D5  
Q4 → D4  
Q6 → E  
Q7 → RS

Shift Register → latch pin  
 low voltage [4-bit controller (2704)  
 Shift register] & data (D7)  
 AS per clock pulse. But  
 (B7) for output to change  
 1. first latch pin high  
 2. then (B7) for output to zero



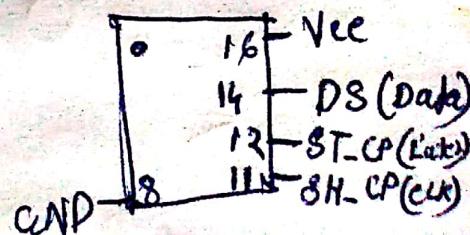
74HC595

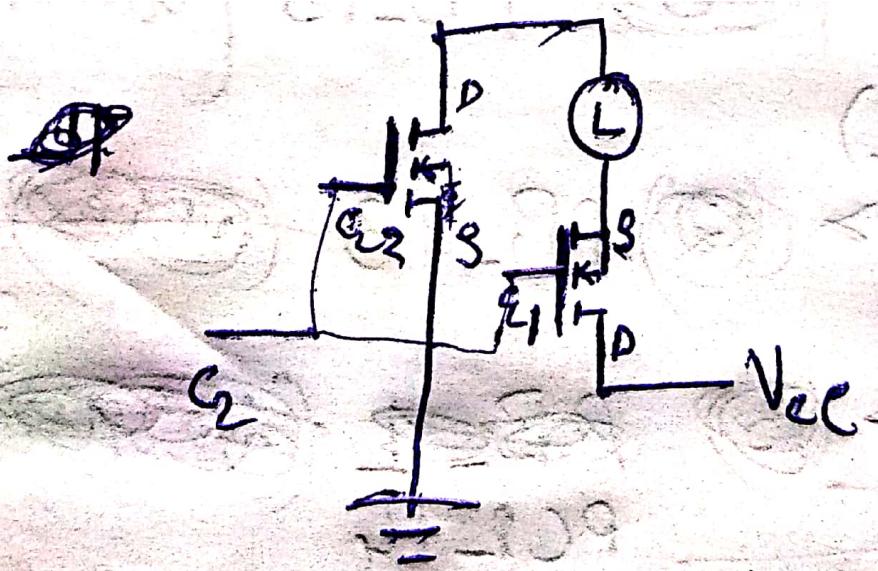
STM32

(Data) D S(14) → PB-15 (green)  
 (CLK) H-CP(11) → PB-13 (Yellow)  
 (L) ST-CP(12) → PC1-14 (Blue)

$$\overline{OE} + GND = GND$$

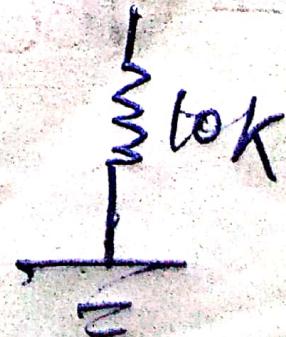
$$\overline{MR} + VCC = VCC$$





$C_1$  &  $C_2$  Start  $\leftrightarrow C_2$


(A2SHB)  
 $G$     $S$    ( $N$ -channel MOSFET)



Compuus module - SDA - PB-7  
SCL - PB-6

## IR - Sensor -

IR - Shift - Register

VCC & GND -

~~IC~~ Shift - Register

D1 - PA-0

D2 - PA-1

D3 - PA-2

D4 - PA-3

D5 - PA-4

D6 - PA-5

D7 - PA-6

D8 - PA-7

Analog  
Reading -

i) Full white portion - 3095

Full white portion but a white shadow on it -  
3126

ii) Sensor on Just black line - ~~3200~~ (3150 - 3200)

iii) Sensor on blackline - 3230 - 3240

~~Ang (+ve)~~

~~(Any < 90°)~~ →  $(\text{Ang} > 0)$  [Combus Module]

~~(Any < 90°)~~ — Left (Slow)

$(\text{Ang} > 90^\circ \text{ \& } \text{Ang} < 180^\circ)$  = Left

$(\text{Ang} > 180^\circ \text{ \& } \text{Ang} < 270^\circ)$  — Right (fast)

~~#~~ ~~(Ang > 270)~~ — Right (slow)

only for 360:  $[360 - 50 = 310 > 270]$

~~Ang (-ve)~~

~~(Any < 0)~~

~~(Any > -90)~~ — Right (Slow)

$(\text{Ang} < -90 \text{ \& } \text{Ang} > -180)$  — Right (fast)

$(\text{Ang} < -180 \text{ \& } \text{Ang} > -270)$  — Left

~~(Ang < -270)~~ — Left (Slow)

~~(fast)~~