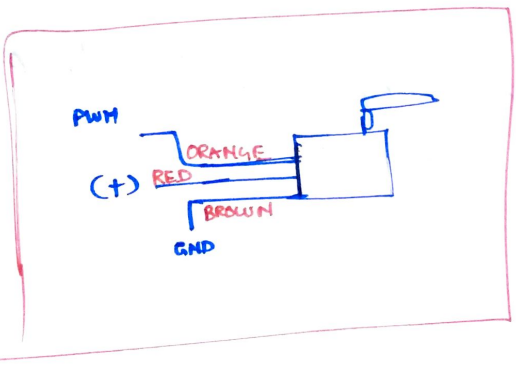
SERVO MOTORS - NORMAL : Has Range 180°

* They are Low powered DC motors.
* Can be directly connected to arduino board for supply (Not recommended if multiple motors are used)
* USECASES:
  - Turning & positioning applications
  - Eg: To Turn Your CCTV Camera.
* Maximum of 8 servo motors can be connected

CONNECTION



(or) BLACK = GND
RED = 5V
WHITE = PWM

SKETCH:

- "Servo.h" library is used to override raw PWM values
- Servo myServo;
  myServo.attach(PIN, PWM);
  myServo.write(Value);

Values = [0 - ~~360~~ 180] degree (~~Cont Rotation~~)

↑ absolute positioning

Continous Servo motors

* ~~Can complete full~~

* Used as ~~other~~ wheel where movement have to be precise.

* Servo.write (value)
  ↳ Value is speed of rotation (0 - 180)

  Value = 90 (REST)

  Value = 91 - 180 (Rotate clockwise Speed

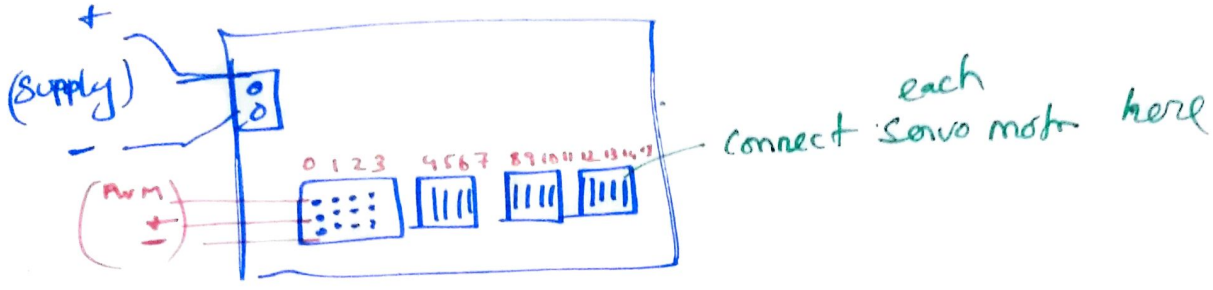
  Value = 0 - 90 (Rotate anticlockwise Speed

* The Resting value (90) have to be calibrated by adjusting the potentiometer in the servo motor.

Adafruit 16-Servomotor shield (I2C), 5V

Address changable

* Can Connect 16- servo motors (or) any device required PWM



* PWM Resolution is 12-bit $2^{\wedge 12} = 4096$
(as opposed to 10-bit)
$2^{10} = 1024$

* Each servo motor pin is attached to 220Ω
Current limiting resitor.

Driver: Adafruit_PWMServoDriver.h