Assignment-6

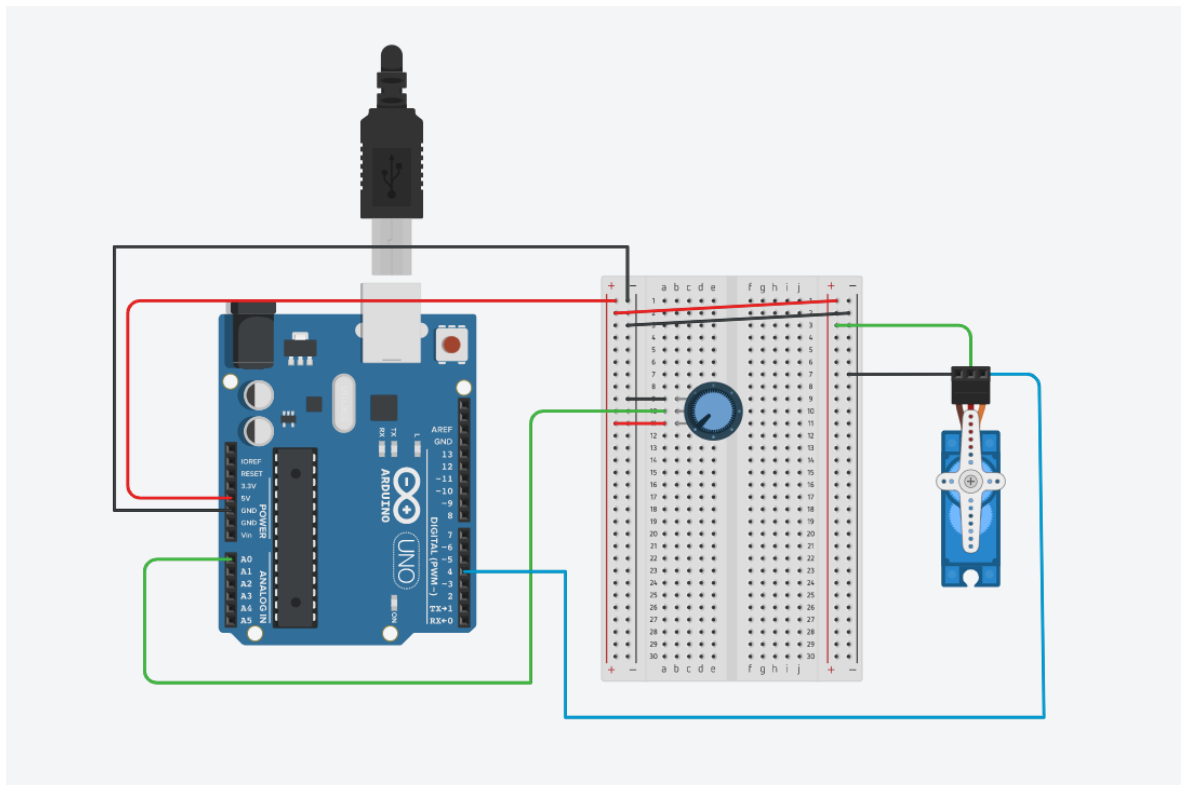| Name	Manvi Pandya
Roll no.	43233
Aim	Develop an Android based FAN regulator using open source Hardware platform like NodeMcu and actuator (a SERVO Motor).

Output

Code

```
#include <Servo.h>
Servo myServo;

int pos = 20;

int delayval = 0;
int dir = 1;
void setup()
{
  pinMode(A0, INPUT);
  pinMode(4, OUTPUT);
  Serial.begin(9600);
  myServo.attach(4);
  myServo.write(0);
  delay(100);
}

void loop()
{
  int val = analogRead(A0);
  val = map(val,0,1023,2000/160,8000/160);
  pos = pos+dir;

  myServo.write(pos);
  delay(val);
  if(dir == 1 && pos > 180)
  {
        dir = -1;
        return;
  }
  if(dir == -1 && pos < 20)
  {
        dir = 1;
        return;
  }
}
```