Name: Omkar Deshpande

Roll No.: 43212

Batch: Q-10

Divisions: BE 10

Assignment no : 6

Problem Statement :Develop an Android based FAN regulator using open source Hardware platforms like NodeMcu and actuator (a SERVO Motor).

CODE :

servo_motor.txt

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

int pos = 20;

int delayval = 0;
int dir = 2;
void setup()
{
  pinMode(A0, INPUT);
  pinMode(4, OUTPUT);
  Serial.begin(9600);
  myServo.attach(4);
  myServo.write(20);
  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 == 2 && pos > 180)
  {
    dir = -2;
    return;
  }
  if(dir == -2 && pos < 0)
  {
    dir = 2;
```

```
   return;
  }
}
```

OUTPUT :