ASSIGNMENT 1

#include <Servo.h>

int reading = 0;

int duty;

int angle;

Servo servo\_11;

void setup()

{

pinMode(12, INPUT);

pinMode(A0, INPUT);

pinMode(10, OUTPUT);

servo\_11.attach(11);

pinMode(A1, INPUT);

}

void loop()

{

if (digitalRead(12) == 0)

{ reading = analogRead(A0);

duty= map(reading,0,1023,0,255);

analogWrite(10, duty);

angle= map(reading,0,1023,0,180);

servo\_11.write(180);

}

else

{ reading = analogRead(A1);

duty= map(reading,20,359,0,255);

analogWrite(10, duty);

angle= map(reading,20,359,0,180);

servo\_11.write(180);

}

delay(100);

}