



MAR LAB 5

NAME: **ARYAN SHINDE**

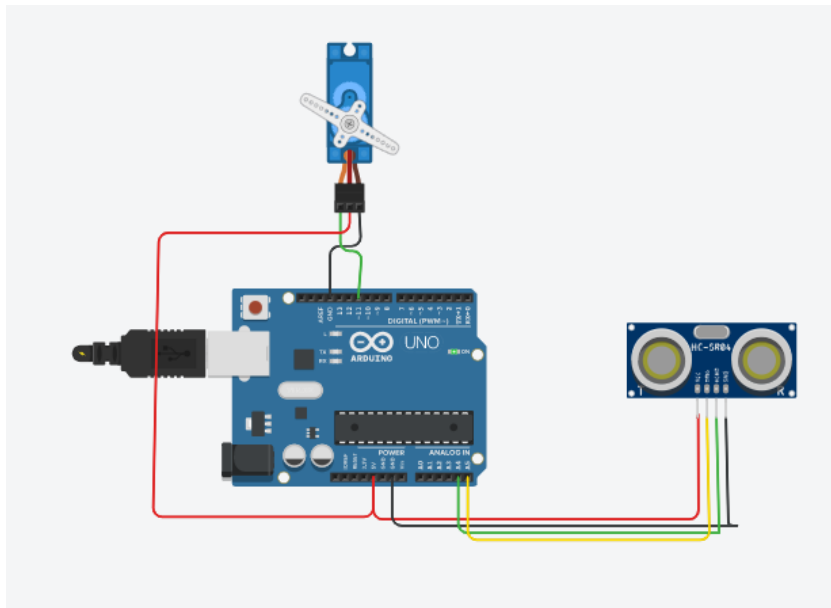
DIV: **Q**

ROLL NUMBER: **63**

PRN NUMBER:

12010823

1. ONLY SERVO MOTOR



```
1  #include <Servo.h>
2  //Name: Aryan Shinde
3  //Roll no. 63
4  //Gr no. 12010823
5  Servo myservo;
6  int i;
7
8  void setup()
9  {
10     myservo.attach(11);
11 }
12
13 void loop()
14 {
15     myservo.write(0);
16     delay(1000);
17     myservo.write(90);
18     delay(1000);
19     myservo.write(180);
20     delay(1000);
21     myservo.write(90);
22     delay(1000);
23 }
```

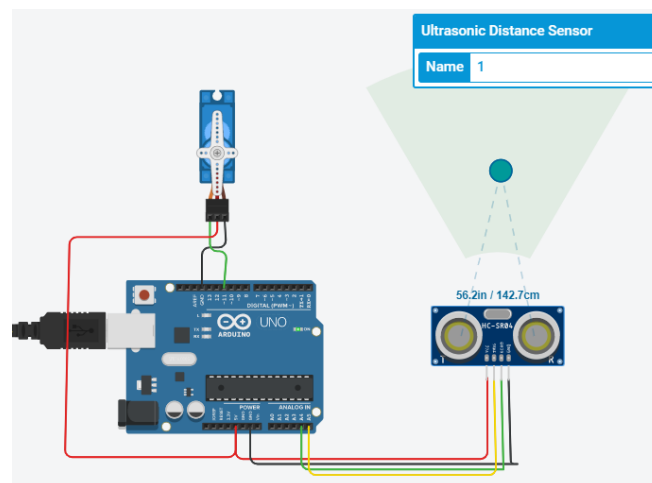
2. ONLY ULTRASONIC

```
//Name: Aryan Shinde
//Roll no. 63
//Gr no. 12010823
long duration;
int dist;

void setup()
{
  pinMode(A5, OUTPUT);
  pinMode(A4, INPUT);
}

void loop()
{
  digitalWrite(A5, LOW);
  delay(100);
  digitalWrite(A5, HIGH);
  delay(100);
  digitalWrite(A5, LOW);
  duration=pulseIn(A4, HIGH);
  dist=(duration*0.034)/2;

}
```



3. BOTH ULTRASONIC AND SERVO MOTOR

```
//Name: Aryan Shinde
//Roll no. 63
//Gr no. 12010823
#include <Servo.h>
Servo myservo;
long duration;
int dist;
void setup()
{ myservo.attach(11);
  pinMode(A5, OUTPUT);
  pinMode(A4, INPUT);
}
void loop()
{
  digitalWrite(A5, LOW);
  delay(100);
  digitalWrite(A5, HIGH);
  delay(100);
  digitalWrite(A5, LOW);
  duration=pulseIn(A4, HIGH);
  dist=(duration*0.034)/2;
  myservo.write(0);
  if(dist>40)
  {
    myservo.write(90);
  }
  else{
    myservo.write(180);
  }
}
```

