Assignment 2

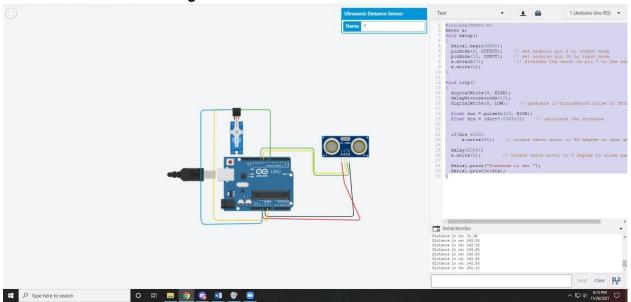
Daksh Pathak - 19BCG10043

Code-

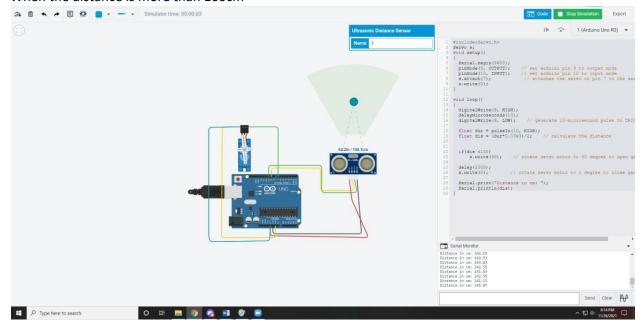
```
#include<Servo.h>
Servo s; void
setup()
 Serial.begin(9600); pinMode(9, OUTPUT); // set arduino
pin 9 to output mode pinMode(10, INPUT); // set arduino
pin 10 to input mode
s.attach(7);
                  // attaches the servo on pin 7 to the servo object
s.write(0);
}
void loop()
 digitalWrite(9, HIGH); delayMicroseconds(10); digitalWrite(9,
LOW); // generate 10-microsecond pulse to TRIG pin
 float dur = pulseIn(10, HIGH); float dis =
(dur*0.0343)/2; // calculate the distance
 if(dis <100)
   s.write(90); // rotate servo motor to 90 degree to open garage door delay(2000);
 s.write(0);
               // rotate servo motor to 0 degree to close garage door
```

```
Serial.print("Distance in cm: ");
Serial.println(dis);
}
```

Screenshot of the design-



When the distance is more than 100cm-



When the distance is less than 100 cm-

