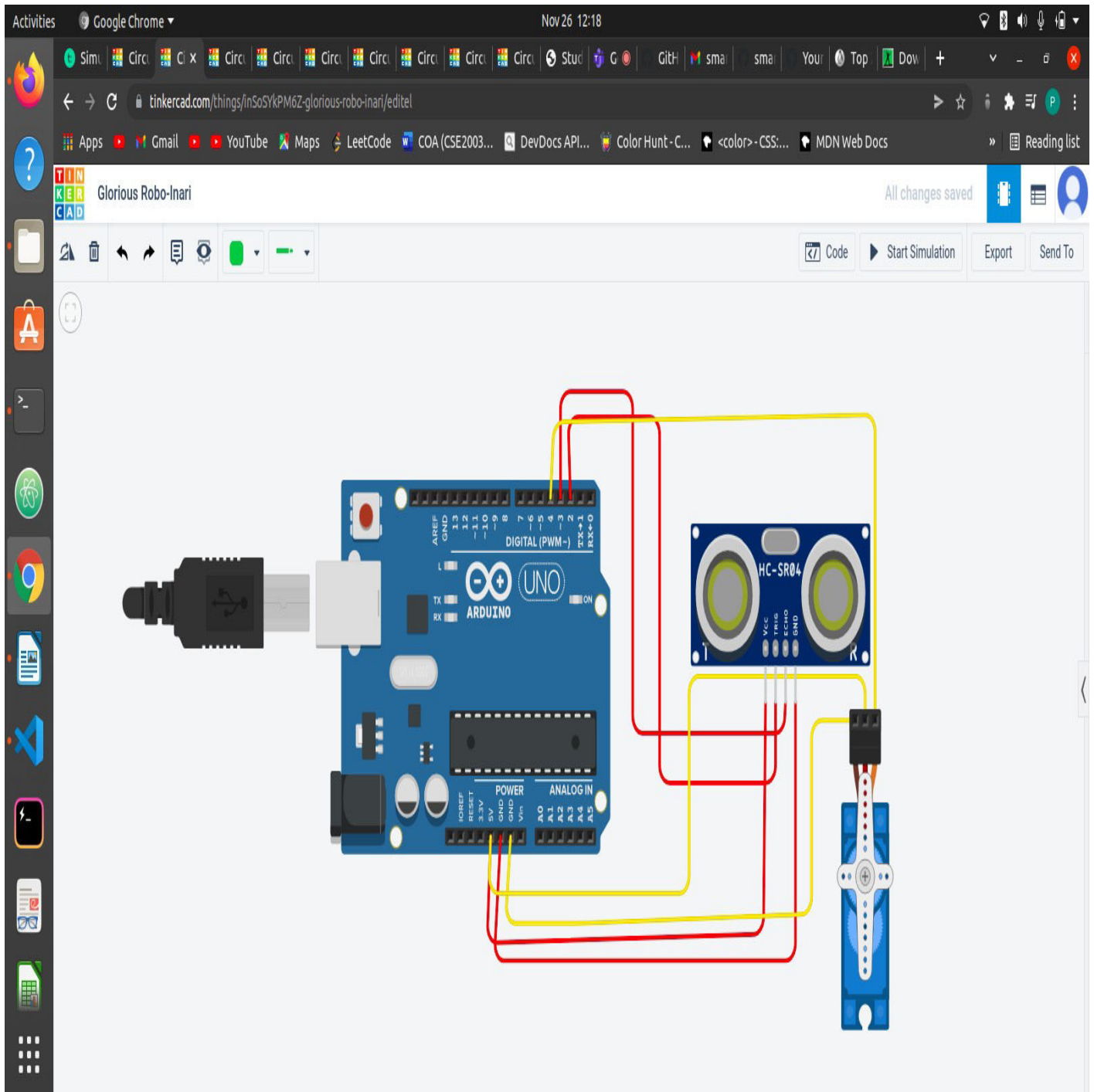


ASSIGNMENT-2

PRAVIR KADIAN



Activities Google Chrome Nov 26 12:18

tinkercad.com/things/inSoSYkPM6Z-glorious-robo-inari/editel

Apps Gmail YouTube Maps LeetCode COA (CSE2003... DevDocs API... Color Hunt - C... <color> - CSS:... MDN Web Docs Reading list

TINKERCAD Glorious Robo-Inari All changes saved

Code Start Simulation Export Send To 1 (Arduino Uno R3)

```
1 #include<Servo.h>
2 Servo s;
3 void setup()
4 {
5   pinMode(2,OUTPUT);
6   pinMode(3,INPUT);
7   Serial.begin(9600);
8   s.attach(4);
9 }
10 void loop()
11 {
12   digitalWrite(2,LOW);
13   digitalWrite(2,HIGH);
14   delayMicroseconds(10);
15   digitalWrite(2,LOW);
16   int dur = pulseIn(3,HIGH);
17   float dis = (dur*0.343)/2;
18   s.write(0);//door cloased initially
19   if(dis>=3200){//range is 4m but tinkercad detects till this value
20     Serial.println("No Car Detected");//if sensor dosn't detect car
21   }
22   else{
23     Serial.println("Door opening:");
24     for(int i=0;i<180;i++){
25       s.write(i);
26       delay(50);
27     }
28     Serial.println("Door opened");
29     delay(5000);//door remains open for 5sec
30     Serial.println("Door closing:");
31     for(int j=180;j>=0;j--){
32       s.write(j);
33       delay(50);
34     }
35     Serial.println("Door closed");
36   }
37   delay(5000);
38 }
```

Serial Monitor