ASSIGNMENT-1

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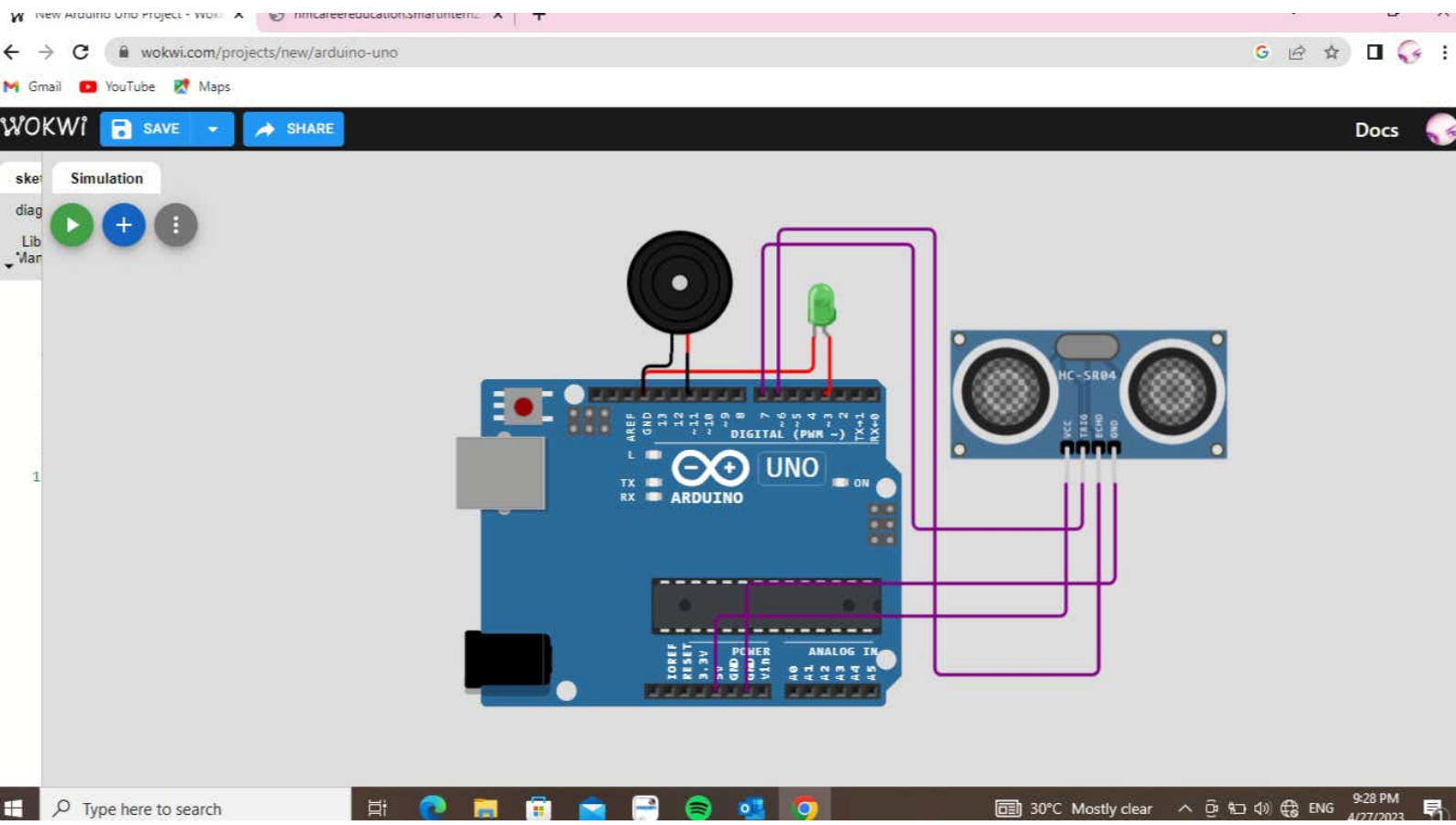
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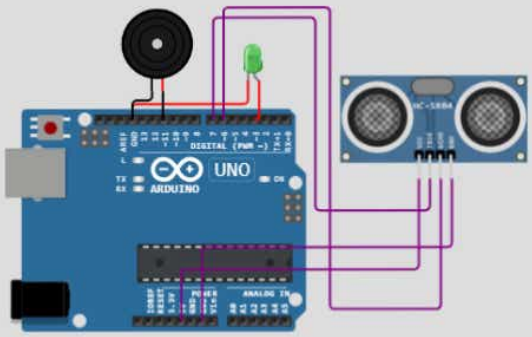
```
#define pitch 262
double duration,distance;
void setup()
 {
//setup for Sensor
Serial.begin(9600);
pinMode(7, OUTPUT);
pinMode(6, INPUT);
//setup for LED
pinMode(3,OUTPUT);
//set for speaker
pinMode(11,OUTPUT);
void loop()
{
//looping sensor
digitalWrite(7, LOW);
delayMicroseconds(2);
digitalWrite(7, HIGH);
delayMicroseconds(10);
digitalWrite(7, LOW);
delayMicroseconds(2);
duration-pulseIn(6,HIGH);
distance (duration/2)*8.8343;
if(distance(300)
digitalWrite(3, HIGH);
tone(11, pitch);
delay(100);
digitalWrite(3, LOW);
noTone(11);
```

Simulation



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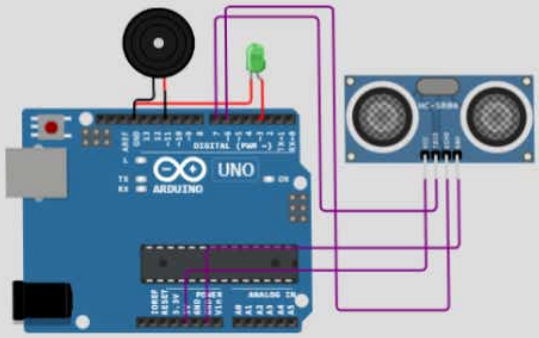
```
13  void loop()
14  {
15  //looping sensor
16  digitalWrite(7, LOW);
17  delayMicroseconds(2);
18  digitalWrite(7, HIGH);
19  delayMicroseconds(10);
20  digitalWrite(7, LOW);
21  delayMicroseconds(2);
22  duration-pulseIn(6,HIGH);
23  distance (duration/2)*8.8343;
24  if(distance(300)
25  digitalWrite(3, HIGH);
26  tone(11, pitch);
27  delay(100);
28  digitalWrite(3, LOW);
29  noTone(11);
30  delay(100);
31  else
32  {
33  digitalWrite(3, LOW);
34  noTone(11);
35  }
36  }
37
```

Simulation



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