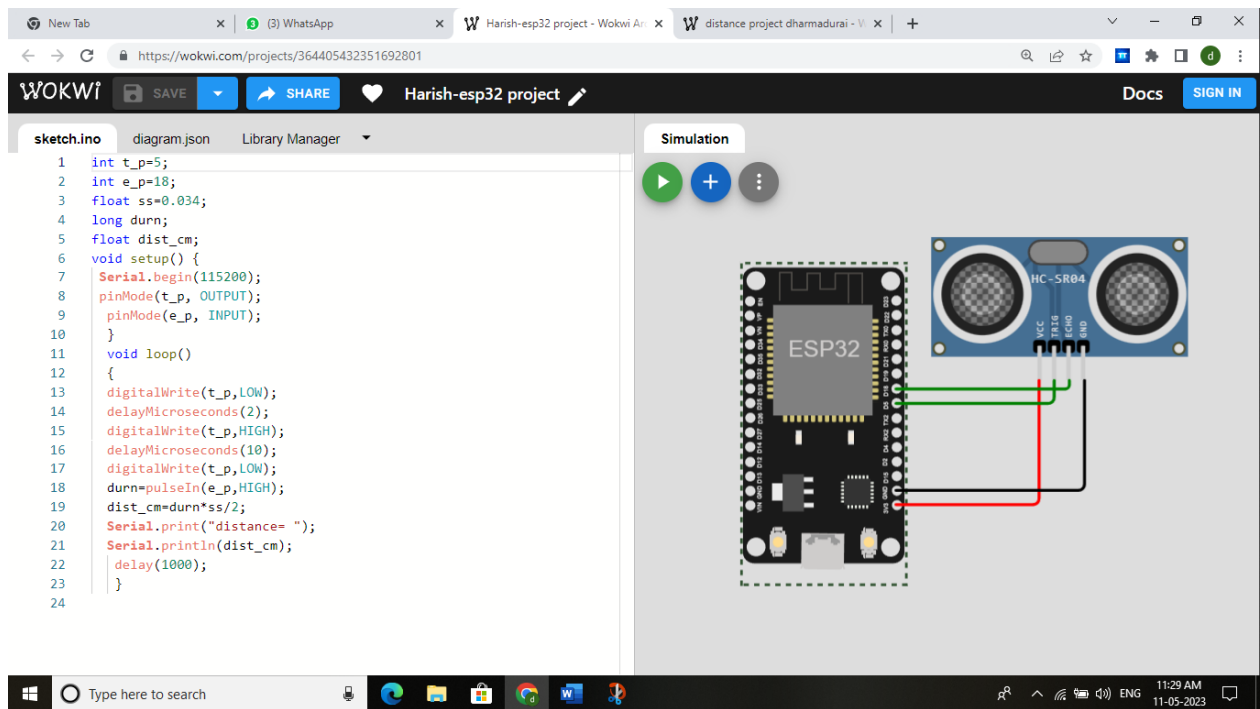


ASSIGNMENT-3

NAME	HARISH .B
ASSIGNMENT NAME	Build wowki product, use ultrasonic sensor and detect the distance from the object. Whenever distance is less than 100cms

LINK: <https://wokwi.com/projects/364407615995638785>

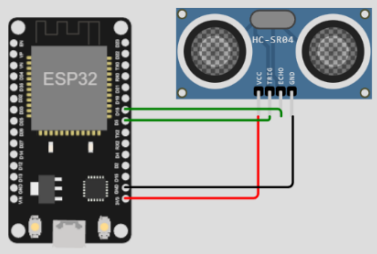


WOKWI

sketch.ino diagram.json Library Manager

```
1 int t_p=5;
2 int e_p=18;
3 float ss=0.034;
4 long durn;
5 float dist_cm;
6 void setup() {
7   Serial.begin(115200);
8   pinMode(t_p, OUTPUT);
9   pinMode(e_p, INPUT);
10 }
11 void loop()
12 {
13   digitalWrite(t_p, LOW);
14   delayMicroseconds(2);
15   digitalWrite(t_p, HIGH);
16   delayMicroseconds(10);
17   digitalWrite(t_p, LOW);
18   durn=pulseIn(e_p, HIGH);
19   dist_cm=durn*ss/2;
20   Serial.print("distance= ");
21   Serial.println(dist_cm);
22   delay(1000);
23 }
24
```

Simulation



distance= 95.97
distance= 95.97
distance= 95.97
distance= 95.97
distance= 95.97

PROGRAM:

```
int t_p=5;
int e_p=18;
float ss=0.034;
long durn;
float dist_cm;

void setup() {

  Serial.begin(115200);
  pinMode(t_p, OUTPUT);
  pinMode(e_p, INPUT);

}

void loop()
{
  digitalWrite(t_p, LOW);
  delayMicroseconds(2);
  digitalWrite(t_p, HIGH);
  delayMicroseconds(10);
  digitalWrite(t_p, LOW);
  durn=pulseIn(e_p, HIGH);
```

```
dist_cm=durn*ss/2;  
Serial.print("distance= ");  
Serial.println(dist_cm);  
  delay(1000);  
}
```