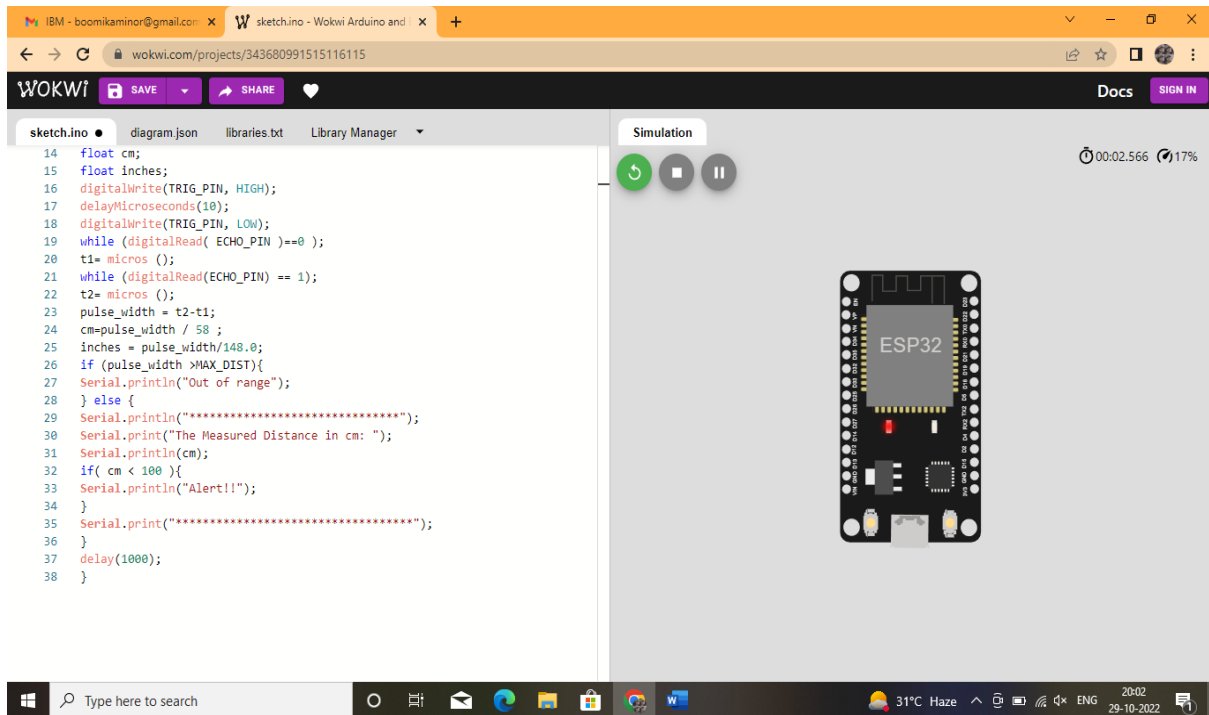
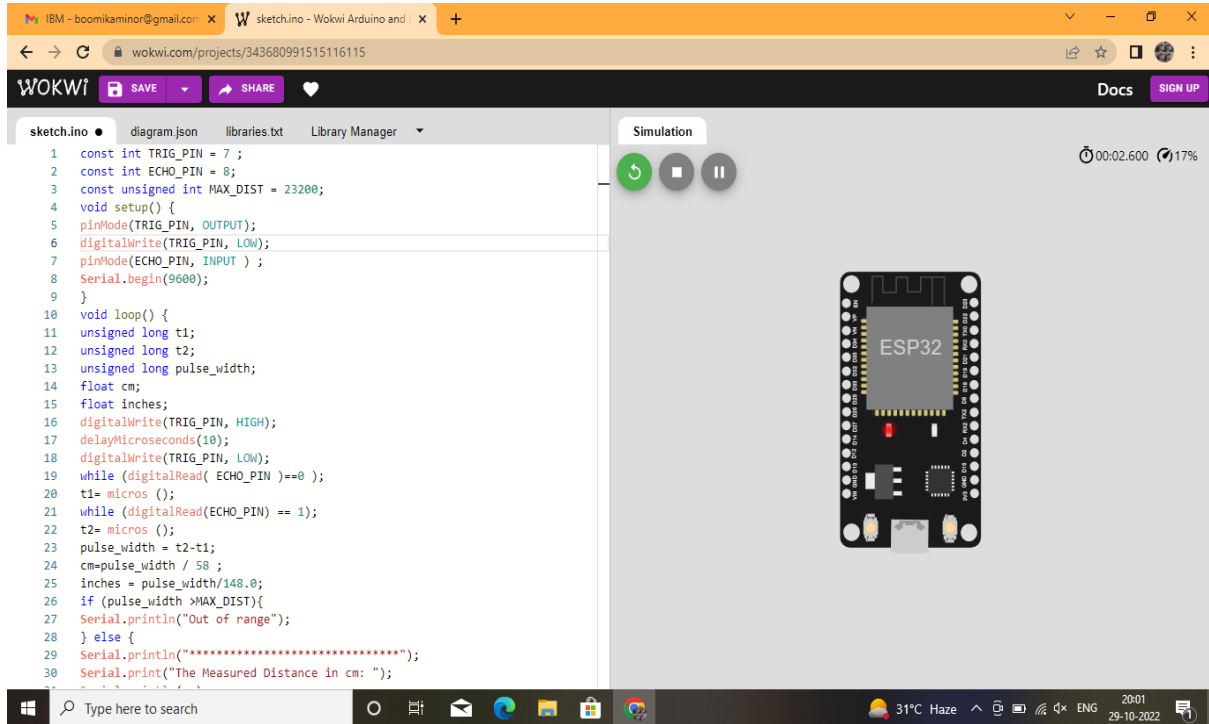


CONNECTION IN WOKWI FOR ULTRASONIC SENSOR

ASSIGNMENT-4



LINK FOR WOKWI: <https://wokwi.com/projects/346864428036129364>

CODE:

```
const int TRIG_PIN = 7 ;
const int ECHO_PIN = 8;
const unsigned int MAX_DIST = 23200;
void setup() {
  pinMode(TRIG_PIN, OUTPUT);
  digitalWrite(TRIG_PIN, LOW);
  pinMode(ECHO_PIN, INPUT ) ;
  Serial.begin(9600);
}
void loop() {
  unsigned long t1;
  unsigned long t2;
  unsigned long pulse_width;
  float cm;
  float inches;
  digitalWrite(TRIG_PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG_PIN, LOW);
  while (digitalRead( ECHO_PIN )==0 );
  t1= micros ();
  while (digitalRead(ECHO_PIN) == 1);
  t2= micros ();
  pulse_width = t2-t1;
  cm=pulse_width / 58 ;
  inches = pulse_width/148.0;
  if (pulse_width >MAX_DIST){
    Serial.println("Out of range");
  } else {
    Serial.println("*****");
    Serial.print("The Measured Distance in cm: ");
    Serial.println(cm);
    if( cm < 100 ){
      Serial.println("Alert!!");
    }
    Serial.print("*****");
  }
  delay(1000);
}
```

IBM CLOUD :

The screenshot displays the IBM Cloud dashboard in a web browser. The browser's address bar shows the URL `cloud.ibm.com`. The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and 'Boomika M's Account'. The main content area is titled 'Dashboard' and features a 'For you' section with several recommended actions: 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services), 'Monitor your resources' (Get visibility into the performance and health of your resources), 'Create and deploy an application' (Browse our starter kits, and then select one to jump start the process to create and deploy your app), 'Build a web app with Watson Speech to Text' (Deploy a conversational interface compatible with any application, device, or channel), 'Build with Watson' (Chatbots, insights, recognizers, and more. Explore the AI platform for business), and 'Set up account' (Learn how to set up your account, manage your organization, and control resources). Each action card includes a 'Getting started' button and a time estimate. Below the 'For you' section, there are three more cards: 'User access' (Manage users), 'News' (Announcing IBM Cloud Pak for Network Automation Version 2.4), and 'Planned maintenance' (View all). The bottom of the dashboard shows a Windows taskbar with various application icons and system information like '31°C Haze' and '20:05 29-10-2022'.

IBM Cloud

Search resources and products...

Catalog Manage Boomika M's Account

Dashboard

Edit dashboard Upgrade account Create resource

For you

Select an option

Build
Explore IBM Cloud with this selection of easy starter tutorials and services.

Monitor your resources
Get visibility into the performance and health of your resources.

Create and deploy an application
Browse our starter kits, and then select one to jump start the process to create and deploy your app.

Build a web app with Watson Speech to Text
Deploy a conversational interface compatible with any application, device, or channel.

Build with Watson
Chatbots, insights, recognizers, and more. Explore the AI platform for business.

Set up account
Learn how to set up your account, manage your organization, and control resources.

Getting started 5 min Getting started 5 min Getting started 15 min Popular 3 min Getting started

User access Manage users

Enter email addresses below to jump directly into the invite user setup:

News View all

Announcing IBM Cloud Pak for Network Automation Version 2.4

Planned maintenance View all

Type here to search

31°C Haze 20:05 29-10-2022