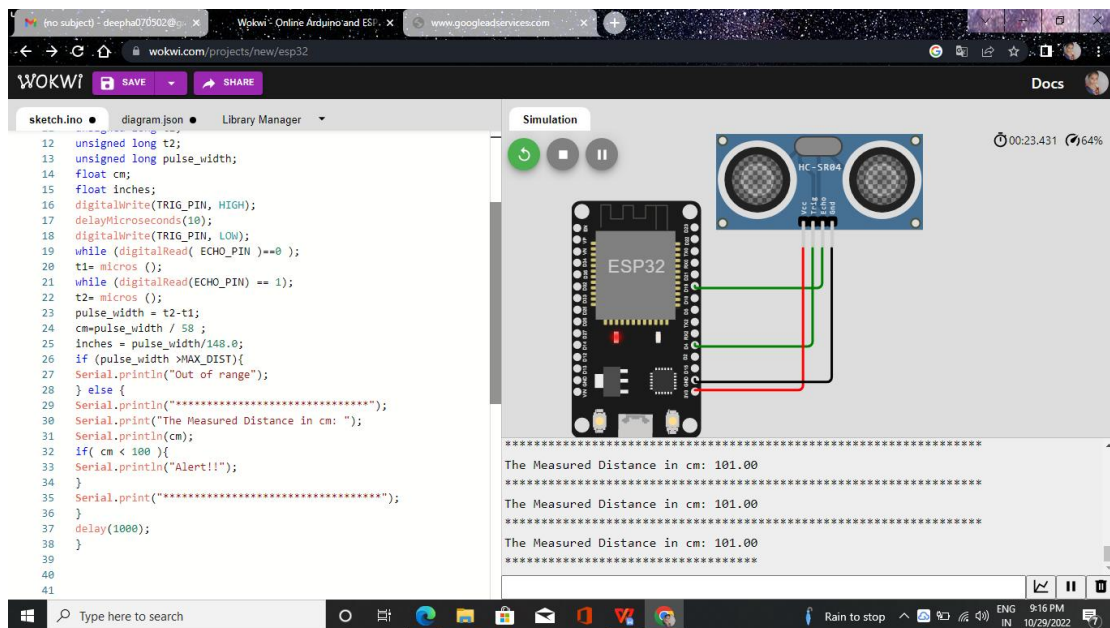
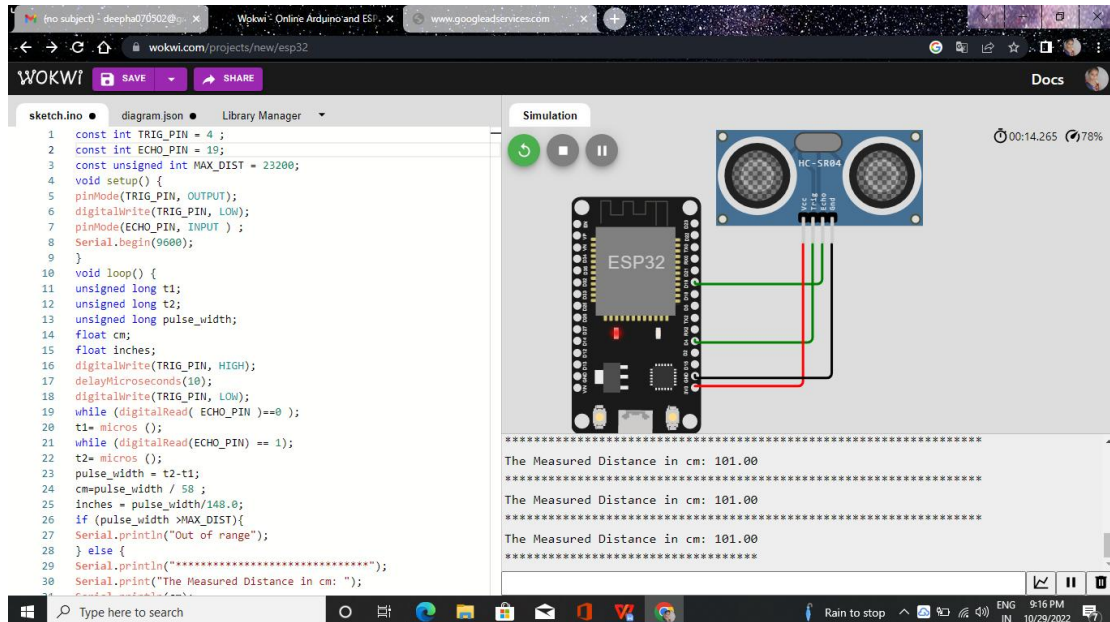


ASSIGNMENT - 4

CONNECTION IN WOKWI FOR ULTRASONIC SENSOR



LINK FOR WOKWI

<https://wokwi.com/projects/346869818209600084>

CODE FOR ASSIGNMENT

```
const int TRIG_PIN = 4 ;
const int ECHO_PIN = 19;
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);
}
```



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