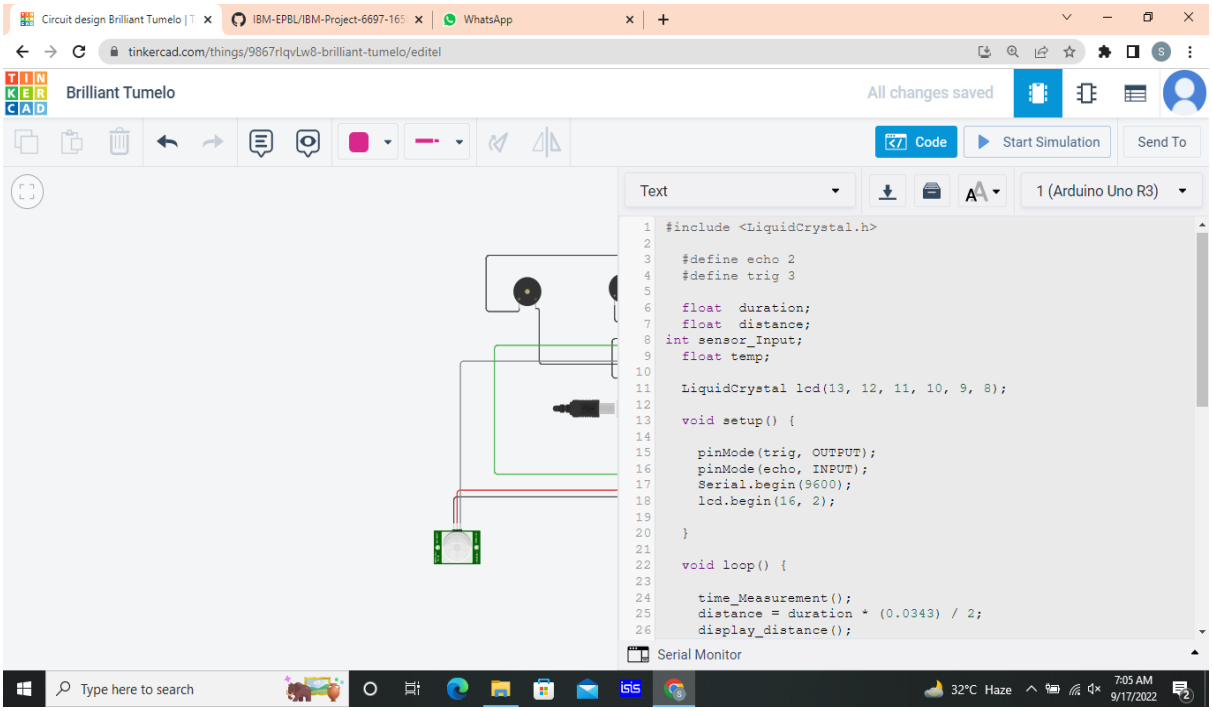
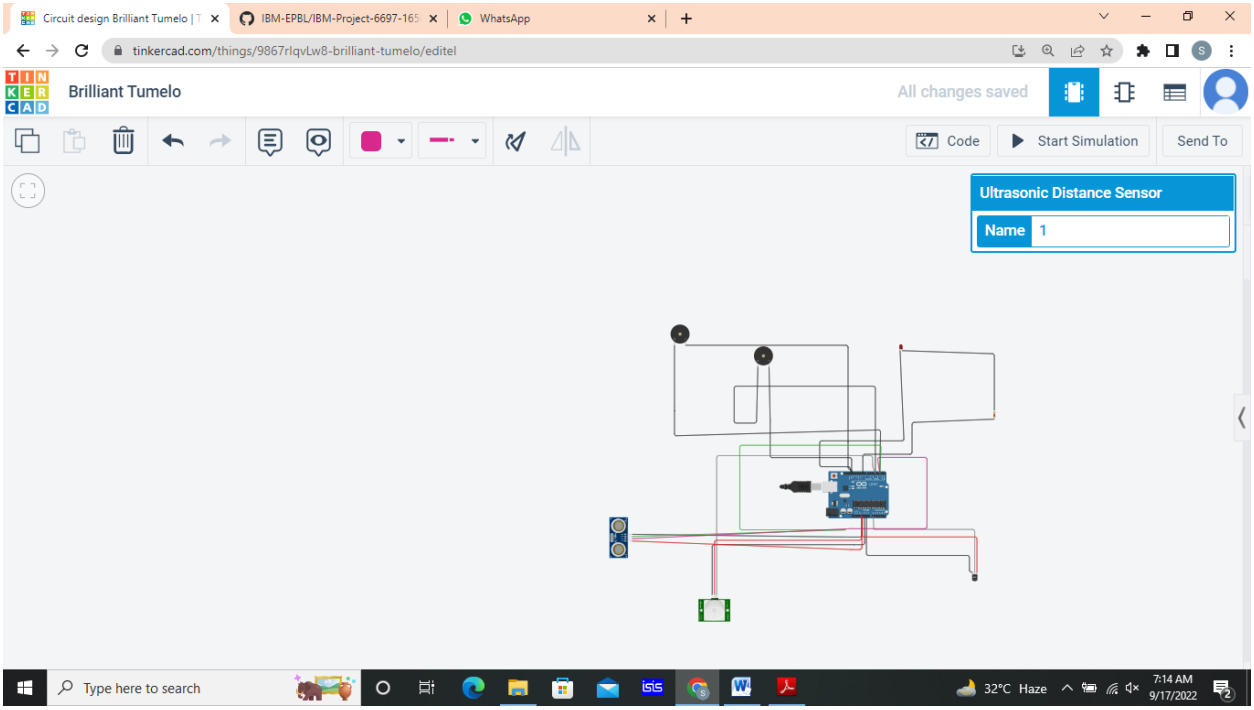

Circuit design Brilliant Tumelo | T
IBM-EPBL/IBM-Project-6697-165
WhatsApp
tinkercad.com/things/9867rlqvLw8-brilliant-tumelo/editel
Brilliant Tumelo
All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
#include <LiquidCrystal.h>
#define echo 2
#define trig 3
float duration;
float distance;
int sensor_Input;
float temp;
LiquidCrystal lcd(13, 12, 11, 10, 9, 8);
void setup() {
pinMode(trig, OUTPUT);
pinMode(echo, INPUT);
Serial.begin(9600);
lcd.begin(16, 2);
}
void loop() {
time_Measurement();
distance = duration * (0.0343) / 2;
display_distance();
Serial Monitor
Type here to search
32°C Haze
7:05 AM
9/17/2022


Circuit design Brilliant Tumelo | T
IBM-EPBL/IBM-Project-6697-165
WhatsApp
tinkercad.com/things/9867rlqvLw8-brilliant-tumelo/editel
Brilliant Tumelo
All changes saved
Code
Start Simulation
Send To
Ultrasonic Distance Sensor
Name 1
Type here to search
32°C Haze
7:14 AM
9/17/2022

CODE:-

```
#include <LiquidCrystal.h>


  #define echo 2

  #define trig 3


  float  duration;

  float  distance;

int sensor_Input;

  float temp;


  LiquidCrystal lcd(13, 12, 11, 10, 9, 8);


  void setup() {
```

```
  pinMode(trig, OUTPUT);
  pinMode(echo, INPUT);
  Serial.begin(9600);
  lcd.begin(16, 2);

}

void loop() {

  time_Measurement();
  distance = duration * (0.0343) / 2;
  display_distance();
  measure_Temp();

}

void time_Measurement()
{
  digitalWrite(trig, LOW);
  delayMicroseconds(2);

  digitalWrite(trig, HIGH);
  delayMicroseconds(10);
  digitalWrite(trig, LOW);
```

```
  duration = pulseIn(echo, HIGH);
 }
void measure_Temp()
 {
  sensor_Input = analogRead(A0);
  temp = (float)sensor_Input / 1024;
  temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
        Serial.print("Temp in C: ");
  Serial.print(temp);
  Serial.println();
 }
 void display_distance()
 {
  Serial.print("Distance in Cm: ");
  Serial.print(distance);
  Serial.println();
  delay(1000);
 }
```