Assignment 1

Student Name : Kaviya

Student Roll No :

PNT2022TMIDI7635

Maximum Marks : 2 Marks

Project Name : IoT based safety gadget for child safety
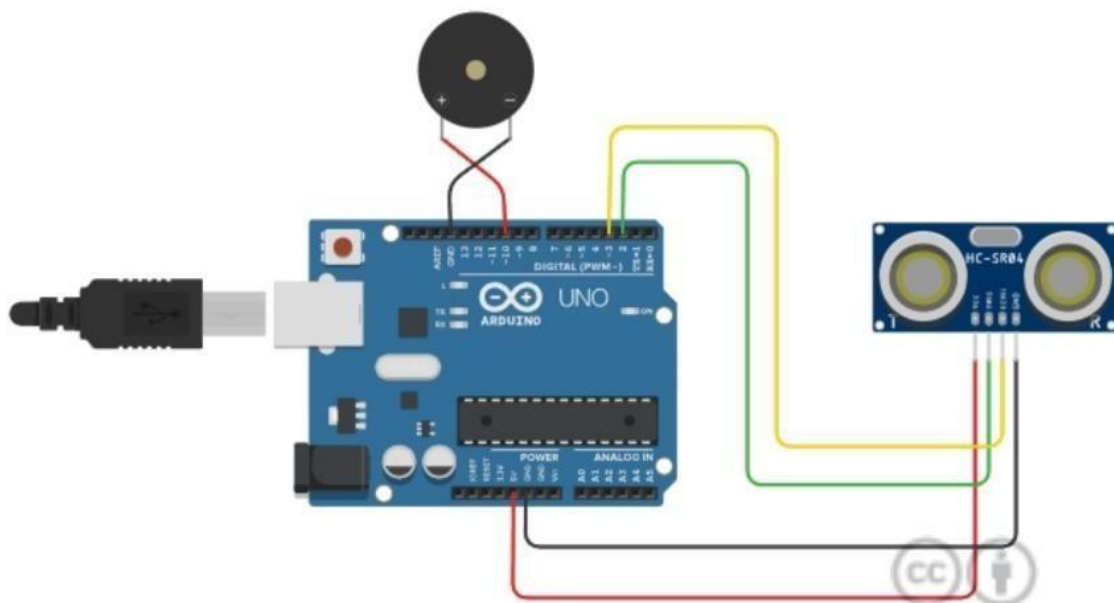monitoring notification

DOMAIN: CHILD SAFETY GADGET

Description: the assignment is about child safety gadget using
IOT, were the ultrasonic distance sensor detect the particles
within the distance 10m and piezo also used here when some
particle detected using piezo is an electronic device that is used
to produce that is used to produce tone or alarm or sound .

 Materials used:
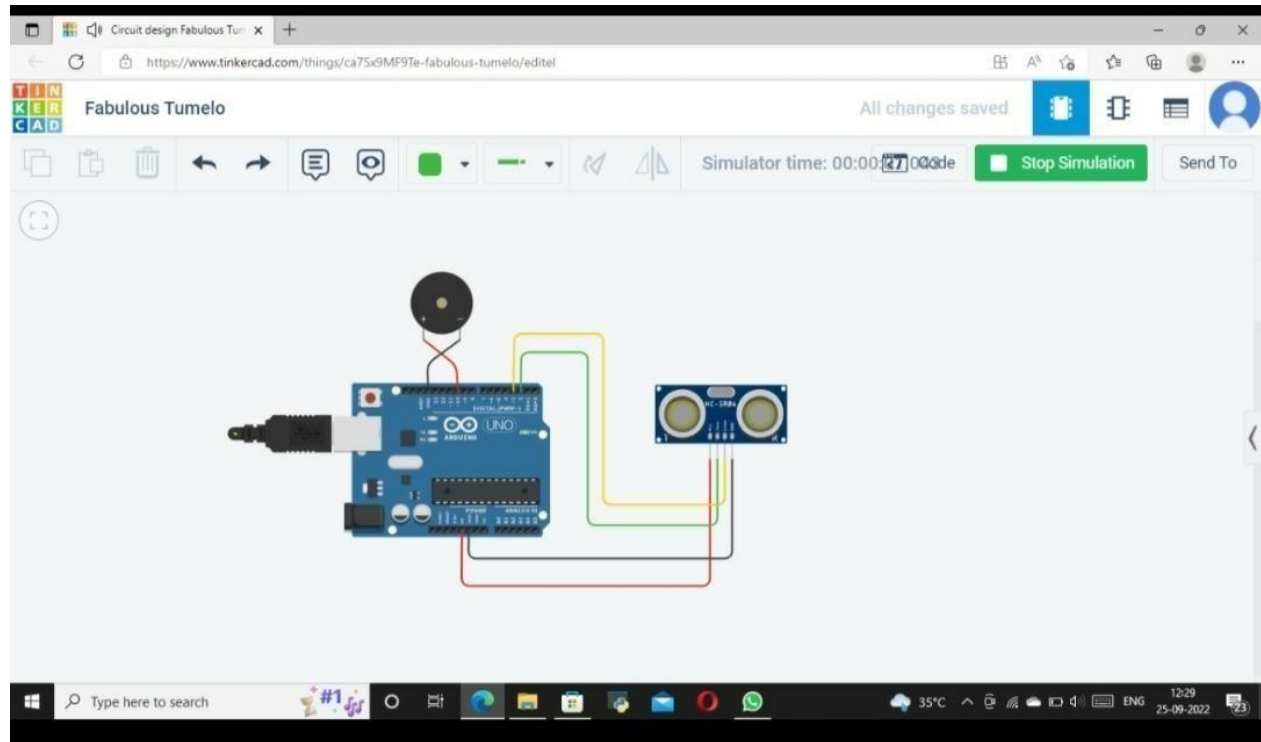- Ultrasonic distance sensor
- Piezo buzzer
- Arduino uno R3

Design sight: https://www.tinkercad.com/things/ca7Sx9MF9Te-fabulous-tumelo/editel

Diagram:

Circuit diagram:

Title:	Fabulous Tumelo	
Date:	9/25/2022, 12:24:14 PM	Sheet: 1/1

Code:

```
int
trigger_pin =
2; Int
echo_pin = 3;
Int
buzzer_pin =
10;Int time;
Int
distance;
Void
setup()
{
    Serial.begin (9600);
    pinMode (trigger_pin,
    output); pinMode
    (echo_pin, input);
    pinMode (buzzer_pin,
    output);
}
void loop()
{
  digitalWrite
  (trigger_pin, HIGH);
  delayMicroseconds
  (10); digitalWrite
  (trigger_pin, LOW);
  time = pulseIn
  (echo_pin, HIGH);
  distance = (time *
  0.034) / 2;

 if (distance <= 10)
    {
    Serial.println ("Some person near
    child");
```

```
   Serial.print (" Distance=");
   Serial.println(distanc
   e);
   digitalWrite
   (buzzer_pin, HIGH);
   delay (500);
   }
 else{
  Serial.println ("some person not
   near child ");Serial.print
   (" Distance= ");
   Serial.println
   (distance);
   digitalWíite
   (buzzer_pin,  LOW);
   delay (500);
 }
}
```

TEAM LEADER: Dharani B

TEAM MEMBERS:

- Amarnath L

- Harish Kumar U

- Kathiravan R

TEAM ID : PNT2022TMID41842

TEAM SIZE : 4