

Assignment1

Assignment Date:19September2022

Student Name : Lokesh D

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Maximum Marks:2Marks

Project Name :IoT basedsafetygadgetforchildsafety
monitoringnotification

DOMAIN:CHILDSAFETYGADGET

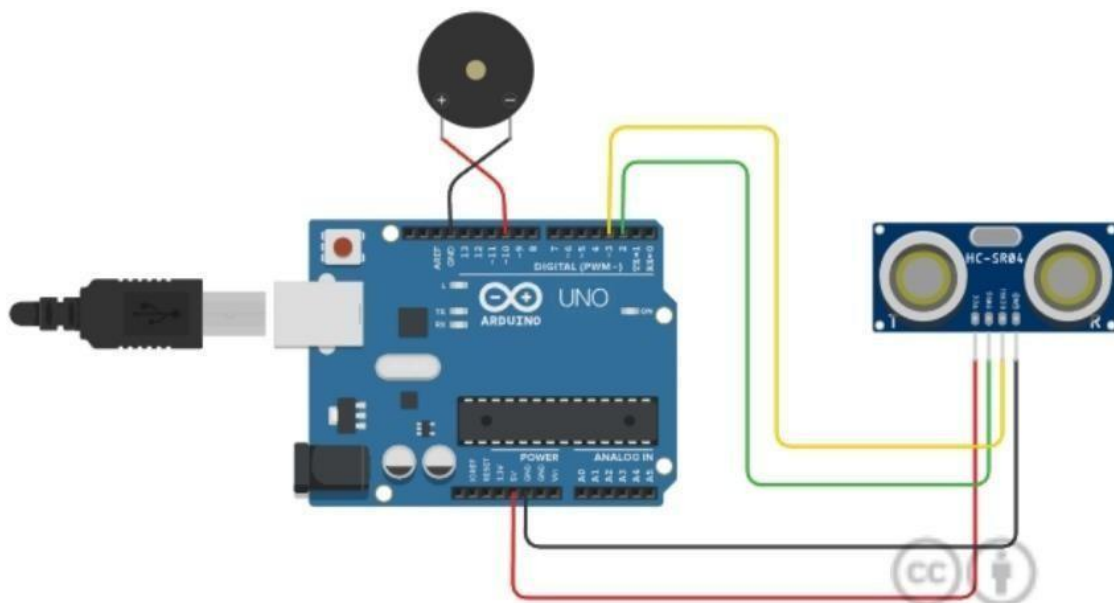
Description: the assignment is about child safety gadget usingIOT, were the ultrasonic distance sensor detect the particleswithin the distance 10m and piezo also used here when someparticle detected using piezo is an electronic device that is usedtoproducethatisusedtoproducetoneoralarmorsound.

Materialsused:

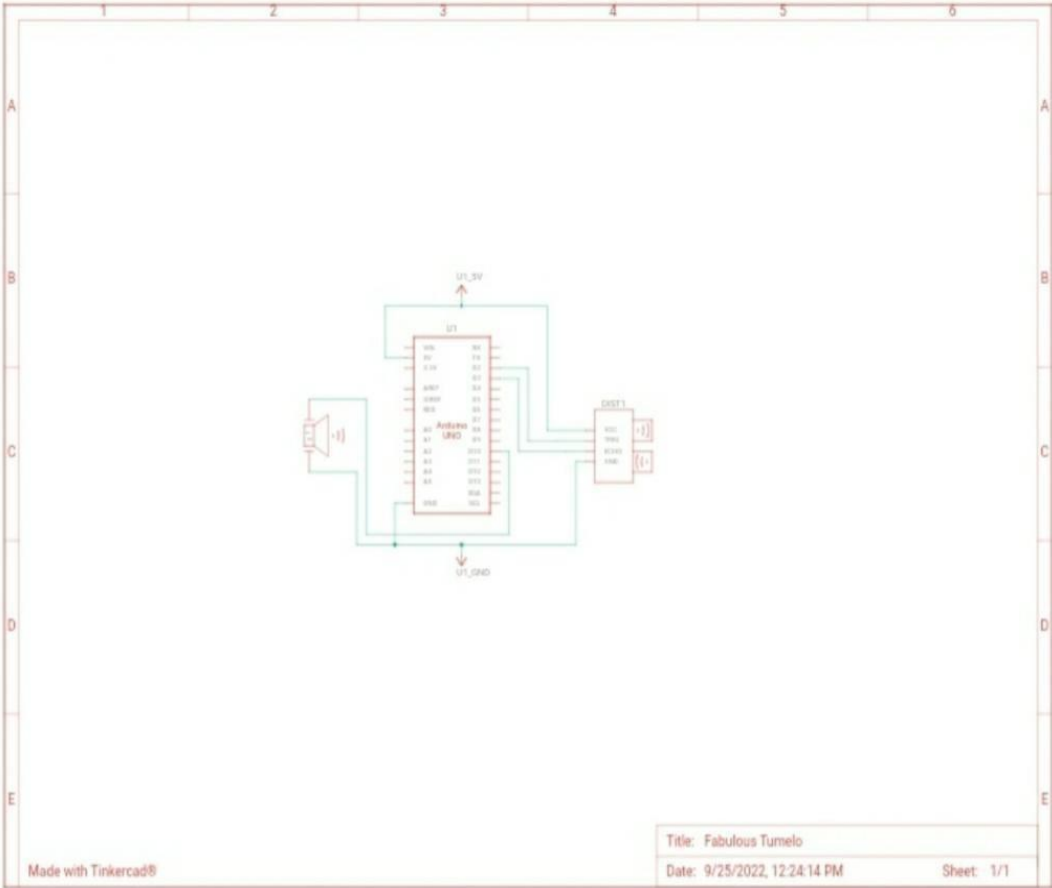
- Ultrasonicdistancesensor
- Piezobuzzer
- ArduinounoR3

Designsight:<https://www.tinkercad.com/things/ca7Sx9MF9Te-fabulous-tumelo/editel>

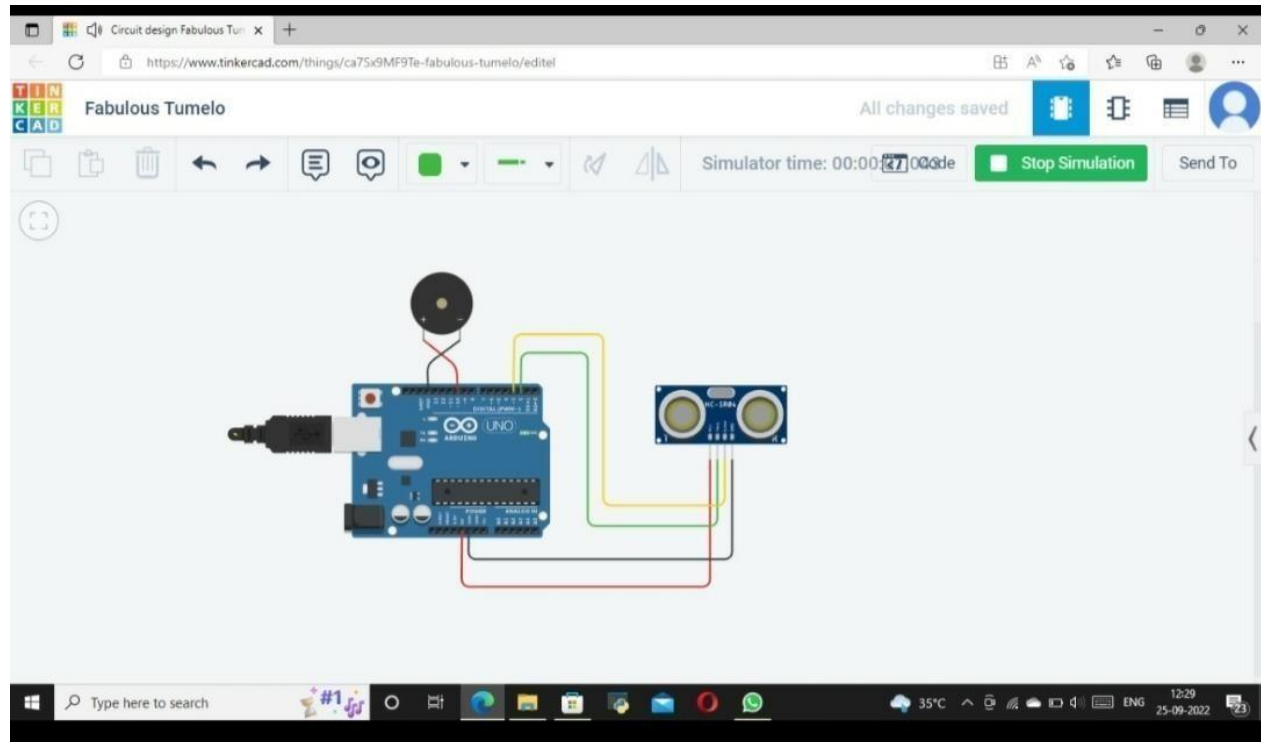
Diagram:



Circuitdiagram:



OUTPUT:



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);
    delay(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(distance);
    digitalWrite
    (buzzer_pin,HIGH);delay(500);
}
else{
    Serial.println("somepersonnotn
    earchild");Serial.print
    ("Distance=");Serial.
    println(distance);digit
    alWrite(buzzer_pin,L
    OW);
    delay(500);
}
}

```

TEAM LEADER:Dharani B

TEAM MEMBERS:

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- HarishKumar U
- Kathiravan R
- Lokesh D

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TEAMSIZE :5