

ASSIGNMENT 1

Assignment Date	18 May 20223
Student Name	Y.Nieeas arif
Student Roll Number	812020106024
Maximum Marks	2 Marks

Build a smart home in wokwi with minimu 2 sensors, an Led, buzzer

Circuit:

Code :

```
int t=2; int
```

```
e=3;
```

```
void setup()
```

```
{
```

```
Serial.begin(9600);
```

```
pinMode(t,OUTPUT);
```

```
pinMode(e,INP
```

```
UT); pinMode(12,OUTPUT);
```

```
}
```

```
void loop() {
```

```
//ultrasonic
```

```

sensor
digitalWrite(t,LOW);
digitalWrite(t,HIGH);
delayMicroseconds(10);
digitalWrite(t,LOW);
        float
dur=pulseIn(e,HIGH);
        float
dis=(dur*0.0343)/2;
Serial.print("Distance is:
"); Serial.println(dis);

//LED ON
        if(dis>=60)//(in
terms of centimeter)
{
digitalWrite(8,HIGH); digitalWrite(7,HIGH);
}

//Buzzer For ultrasonic Sensor    if(dis>=60)
{
for(int i=0; i<=5; i=i+1)
{tone(12,i);
        delay(1000
); noTone(12);
        delay(1000
);

```

```
}
```

```
}
```

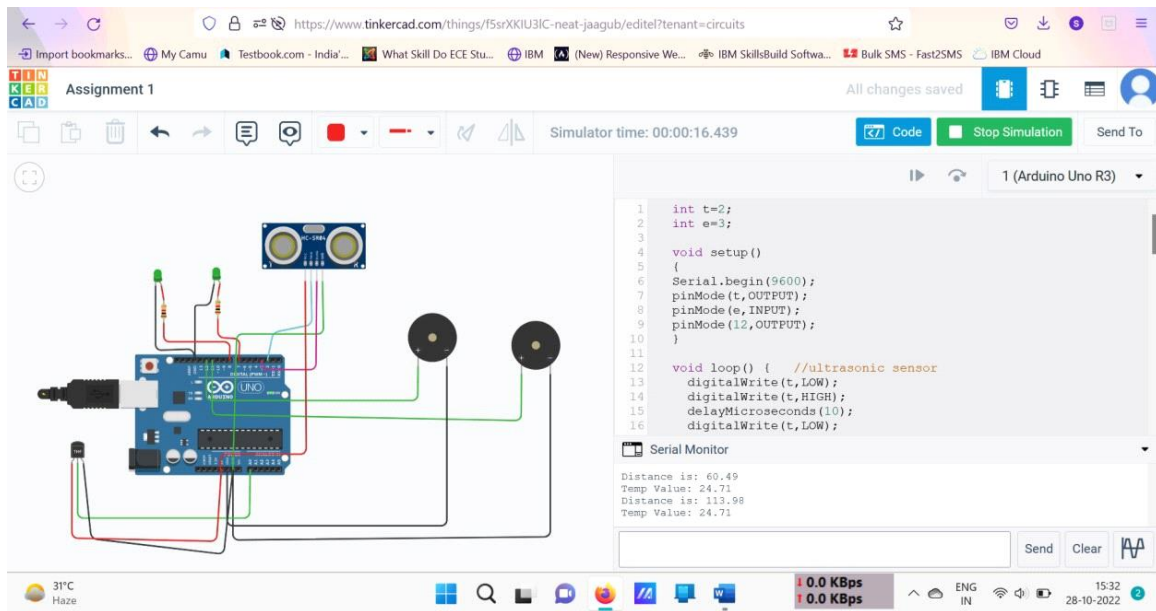
```
    //Temperate Sensor double  
a= analogRead(A0); double  
t=((a/1024)*5  
-0.5)*100;  
    Serial.print("Temp  
Value: ");  
Serial.println(t);  
        delay(100  
0);
```

```
    //LED ON if(t>=20)//(in  
terms of celsius)  
    {  
        digitalWrite(8,HIGH);  
        digitalWrite(7,HIGH);  
    }
```

```
//Buzzer for
Temperature Sensor
if(t>=20)
{
    for(int i=0; i<=5; i=i+1)
    {tone(12,i);
        delay(1000
    ); noTone(12);
        delay(1000
    );
    }
}
```

```
//LED OFF if(t<20)
{
    digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}
```

Output :



Link:

<https://www.tinkercad.com/things/f5srXKIU3IC>