

V S B ENGINEERING COLLEGE, KARUR
Department of Electronics and Communication Engineering
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ASSIGNMENT 1

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Assignment:

Build a project using Arduino UNO interfacing with two sensors, buzzers and LED's

Code:

```
int t=2;

int e=3;

void setup()

{

  Serial.begin(9600);

  pinMode(t,OUTPUT);

  pinMode(e,INPUT);

  pinMode(12,OUTPUT);

}

void loop()

{

  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);
```

```

if(dis>=100)

{

digitalWrite(8,HIGH);

digitalWrite(7,HIGH);

}

if(dis>=100)

{

for(int i=0; i<=30000; i=i+10)

{

tone(12,i);

delay(1000);

noTone(12);

delay(1000);

}

}

double a= analogRead(A0);

double t=((a/1024)*5)-0.5)*100;

Serial.print("Temp Value: ");

Serial.println(t);

delay(1000); if(t>=100)

{

digitalWrite(8,HIGH);

digitalWrite(7,HIGH);

}

if(t>=100)

{

for(int i=0; i<=30000; i=i+10)

```

```

{
tone(12,i);

delay(1000);

noTone(12);

delay(1000);

}

}

if(t<100)

{

digitalWrite(8,HIGH);

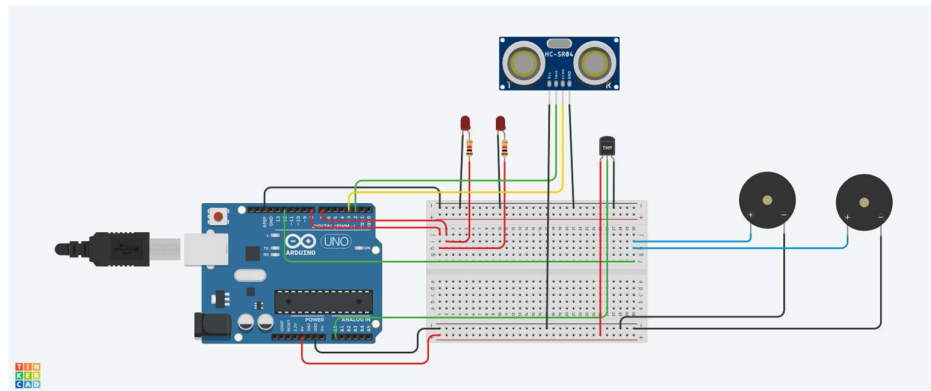
digitalWrite(7,HIGH);

}

}

```

Circuit Diagram:



Output:

