## ASHKKAR SIDHIK BS

## 711319EC011

BATCH NO:B8-2A4E

```
int P=4;
int Q=5;
void setup()
 Serial.begin(9600);
 pinMode(P,OUTPUT);
 pinMode(Q,INPUT);
 pinMode(10,OUTPUT);
}
void loop()
 //ultrasonic sensor
 digitalWrite(P,LOW);
 digitalWrite(P,HIGH);
 delayMicroseconds(10);
 digitalWrite(P,LOW);
 float A=pulseIn(Q,HIGH);
 float B=(A*0.0343)/2;
 Serial.print("Distance is: ");
 Serial.println(B);
  //LED ON
 if(B>=150)
 {
  digitalWrite(5,HIGH);
```

```
digitalWrite(6,HIGH);
}
//Buzzer For ultrasonic Sensor
if(B>=150)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
 //Temperate Sensor
double X= analogRead(A0);
double Y=(((X/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(Y);
delay(1000);
//LED ON
if(Y>=120)
{
 digitalWrite(5,HIGH);
 digitalWrite(6,HIGH);
```

```
}
//Buzzer for Temperature Sensor
if(Y>=120)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
//LED OFF
if(Y<120)
{
 digitalWrite(5,LOW);
 digitalWrite(6,LOW);
}
```

