

## ASSIGNMENT-1

NAME:AJAY KUMAR R  
REGNO:311019106007  
COLLEGE:KCG COLLEGE OF TECHNOLOGY  
TEAMID:PNT2022TMID27339

### Code:

```
//  
C++cod  
eintt=2;  
inte=3;  
voidset  
up()  
{  
    Serial.begin(9600);pin  
    Mode(t,OUTPUT);pin  
    Mode(e,INPUT);pinMo  
    de(12,OUTPUT);  
}  
  
voidloop()  
{  
    //ultrasonic  
    sensordigitalWrite(t,LO  
    W);digitalWrite(t,HIGH)  
    ;delayMicroseconds(10;
```

```

    digitalWrite(t,LOW);
    float
    dur=pulseIn(e,HIGH);float
    dis=(dur*0.0343)/2;Serial.
    print("Distanceis:");Serial.
    println(dis);
//LEDON

if(dis>=60)    //(intermsofcentimeter)
{

    digitalWrite(8,HIGH);digitalWri
    te(7,HIGH);
}
//BuzzerForultrasonicS
ensorif(dis>=60)
{
    for(inti=0;i<=5;i=i+1)
    {
        tone(12,i);d
        elay(1000);n
        oTone(12);d
        elay(1000);
    }
}

```

```

//Temperate
Sensordoublea=analogRe
ad(A0);
doublet=(((a/1024)*5)0.5)*100;
Serial.print("Temp Value:
");Serial.println(t);
delay(1000);

//LEDON
if(t>=20)      //(intermsofcelsius)
{
    digitalWrite(8,HIGH);digitalWri
te(7,HIGH);

}

//BuzzerforTemperature
Sensorif(t>=20)
{
    for(inti=0;i<=5;i=i+1)
    {
        tone(12,i);d
elay(1000);n
oTone(12);d
elay(1000);
    }
}

```

```
}
```

```
//LEDOFF
```

```
if(t<20)
```

```
{
```

```
    digitalWrite(8,
```

```
    LOW);digitalWrite(7,
```

```
    LOW);
```

```
}
```

