

## ASSIGNMENT - 1

NAME: Kolla Hari Babu

REGNO: 311019106032

COLLEGE: KCG COLLEGE OF TECHNOLOGY

TEAM ID: PNT2022TMID27339

### **Code:**

```
// C++
```

```
code int
```

```
t=2;
```

```
int e=3;
```

```
void
```

```
setup()
```

```
{
```

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

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

```
    pinMode(e,INPUT);
```

```
    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(1000);

//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);
```