

INDUSTRY – SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

ASSIGNMENT – 1

CODE:

```
int buzz=4;
int pir=7;
int echo=5;
int trigg=6;
int pir_led=12;
int us_led=13;
int value=0;
const int ldr_led=3;
const int ldr=A0;
int time;
int dist;
void setup()
{
  Serial.begin(9600);
  pinMode(pir_led,OUTPUT);
  pinMode(us_led,OUTPUT);
  pinMode(buzz,OUTPUT);
  pinMode(pir,INPUT);
  pinMode(echo,INPUT);
  pinMode(trigg,OUTPUT);
  pinMode(ldr,INPUT);
```

```

pinMode(ldr_led,OUTPUT);
}
void loop()
{
if(digitalRead(pir)==HIGH)
{
Serial.println("There is a person...");
digitalWrite(pir_led,HIGH);
}
else if(digitalRead(pir)==LOW)
{
digitalWrite(pir_led,LOW);
}
digitalWrite(trigg,HIGH);
delayMicroseconds(10);
digitalWrite(trigg,LOW);
time=pulseIn(echo,HIGH);
dist=(time*0.034)/2; if(dist<=100)
{
Serial.println("A personNear...");
digitalWrite(us_led,HIGH);
tone(buzz,1000,1000);
delay(1000);
}
else
{
digitalWrite(us_led,LOW);

```

```

noTone(0);
delay(1000);
} }
void loop1()
{
int ldrStatus = analogRead(ldr);
if (ldrStatus <= 200)
{
digitalWrite(ldr_led,HIGH);
} else
{
digitalWrite(ldr_led,LOW);
} }

```

PICTURE:

