

INDUSTRY – SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

ASSIGNMENT – 1

CODE:

```
int buzz=3;
int pir=6;
int echo=4;
int trigg=5;
int pir_led=14;
int us_led=15;
int value=0;
const int ldr_led=4;
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:

