PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-4

CODE:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(5,6,8,9,10,11);
int redled = 2;
int greenled = 3;
int buzzer = 4;
int sensor = A0;
int sensorThresh = 400;
void setup()
pinMode(redled, OUTPUT);
pinMode(greenled,OUTPUT);
pinMode(buzzer,OUTPUT);
pinMode(sensor,INPUT);
Serial.begin(9600);
lcd.begin(16,2);
}
void loop()
int analogValue = analogRead(sensor);
Serial.print(analogValue);
if(analogValue>sensorThresh)
```

```
{
 digitalWrite(redled,HIGH);
 digitalWrite(greenled,LOW);
 tone(buzzer,1000,10000);
 lcd.clear();
 lcd.setCursor(0,1);
 lcd.print("ALERT");
 delay(1000);
 lcd.clear();
 lcd.setCursor(0,1);
 lcd.print("EVACUATE");
 delay(1000);
}
else
 digitalWrite(greenled,HIGH);
 digitalWrite(redled,LOW);
 noTone(buzzer);
 lcd.clear();
 lcd.setCursor(0,0);
 lcd.print("SAFE");
 delay(1000);
 lcd.clear();
 lcd.setCursor(0,1);
 lcd.print("ALL CLEAR");
 delay(1000);
}
```

}