

Assigned Task:

Project Development – Delivery of sprint-3

Assignment date	26 October 2022
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Question:

In this activity you are expected to develop & submit the developed code by testing it.

Solution:

```
#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);  
}  
  
}
```