

# PROJECT FINAL SUBMISSION

## CODE FOR IOT BASED SYSTEM

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```
#include<ESP8266WiFi.h>
WiFiClient iotclient; //globally declaring client
#include "ThingSpeak.h"//including things speak
```

```
#define led 13
#define ldr A0
int level;
int threshold=200;
```

```
void setup()
```

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

```
  pinMode(led,OUTPUT);
  pinMode(ldr,INPUT);
```

```
  ThingSpeak.begin(iotclient);
  WiFi.mode(WIFI_STA);
  WiFi.begin("Hit Girl!","Amalu@1998");
  while (WiFi.status()!=WL_CONNECTED)
```

```
  {
    delay(100);
  }
```

```
  Serial.print(WiFi.localIP());
```

```
}
```

```
void loop()
```

```
{
```

```
  int a;
  int level;
  level=analogRead(ldr);
  Serial.println(level);
  if(level<threshold)
```

```
{
```

```

    digitalWrite(led,HIGH);
}
else
{
    digitalWrite(led,LOW);
}

ThingSpeak.writeField(370050,2,level,"39RTG1MQTGGST9BJ");// writes 'level' to
thingspeak
Serial.println(level);
a= digitalRead(led);
ThingSpeak.writeField( 371221,1,a,"D3M1K8A23YY6MF6T");
Serial.println(a);
delay(20000);//for free users there will be a a delay of 20 sec ie, 20*1000 millisec..ie
why we give delay of 20000 sec
}

```