**Source Code**

The **Observing Food Quality for COVID patient in Hospital Using Red light and yellow light based on IOT, AI, and Embedded technologies** program is very simple and straight forward, which controls **Red light and yellow light based** in certain time period. The C program is written in Keil software.

**C Program to Red light and yellow light based on IOT, AI, and Embedded technologies using 8051**

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Title : **Red light and yellow light based on Embedded technologies**

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#include

sbit RA = P1^0; //RA Red Light//

sbit YA = P1^1;//YA Yellow Light//

sbit RB = P3^2;

sbit YB = P3^3;

sbit RC = P3^5;

sbit YC = P3^6;

sbit rD = P1^3;

sbit YD = P1^4;

void Delay (void)

{

unsigned int i,j;

for (i=0;i<200;i++)

for (j=0;j<500;j++);

}

void SuperDelay()

{

unsigned int i;

for (i=0;i<25;i++)

Delay();

}

void main ()

{

P3 = 0;while (1)

{

RA = 0;

YA = 0;

RB = 1;

YB = 0;

RC = 1;

YC = 0;

rD = 1;

YD = 0;

SuperDelay();

YA = 1;

Delay();

RA = 1;

YA = 0;

RB = 0;

YB = 0;

RC = 1;

YC= 0;

rD = 1;

YD = 0;

SuperDelay ();

YB = 1;

Delay ();

RA = 1;

YA = 0;

RB = 1;

YB = 0;

RC = 0;

YC = 0;

rD = 1;

YD = 0;

SuperDelay ();

YC = 0;

rD = 0;

YD = 0;

SuperDelay ();

YD = 1;

Delay();

}

}