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Subject : Internet of things
Class   : SE(A)
Branch : AI&DS
Assignment No : 06

Problem Statement:

Create a program so that when the user enters 'b' the green light blinks, 'g' the green light is illuminated 'y' the yellow light is illuminated and 'r' the red light is illuminated.

Code:

```
const int g=0;
const int r=1;
const int y=2;

void setup() {
unsigned char key=0;
void loop() {
        Serial.begin(19200);
 // put your main code here, to run repeatedly:
while(1)
{
 key=Serial.read();
 if((key=='g')||(key=='G'))break;
 if((key=='r')||(key=='R'))break;
 if((key=='y')||(key=='Y'))break;
 delay(200);
}
Serial.end();
pinMode(g,OUTPUT);
pinMode(y,OUTPUT);
pinMode(r,OUTPUT);
if((key=='g')||(key=='G')){
 digitalWrite(g,LOW);
 digitalWrite(y,HIGH);
 digitalWrite(r,HIGH);
        delay(5000);
 digitalWrite(g,HIGH);
 digitalWrite(y,HIGH);
 digitalWrite(r,HIGH);
        key=0;
}
else if((key=='y')||(key=='Y')){
 digitalWrite(g,HIGH);
 digitalWrite(y,LOW);
 digitalWrite(r,HIGH);
 delay(5000);
 digitalWrite(g,HIGH);
```

```
 digitalWrite(y,HIGH);
 digitalWrite(r,HIGH);
 key=0;
 }
 else if((key=='r')||(key=='R')){
 digitalWrite(g,HIGH);
 digitalWrite(y,HIGH);
 digitalWrite(r,LOW);
 delay(5000);
 digitalWrite(g,HIGH);
 digitalWrite(y,HIGH);
 digitalWrite(r,HIGH);
 key=0;
 }
 }
```