**NAME :** DUDHE ANIL AJINATH

**ROLL NO :** SEAD21269

**SUBJECT :** Internet Of Things (IOT)

**CLASS :** SE

**BRANCH :** AI&DS

**DATE :**

**EXPERIMENT NO : 7**

**TITLE :**

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 green\_led=0;**

**const int red\_led=1;**

**const int yellow\_led=2;**

**void setup()**

**{**

**}**

**unsigned char key=0;**

**void loop()**

**{**

**Serial.begin(9600);**

**while(1)**

**{**

**key=Serial.read();**

**if((key == 'g')||(key == 'G'))break;**

**if((key == 'r')||(key == 'R'))break;**

**if((key == 'y')||(key == 'Y'))break;**

**delay(100);**

**}**

**Serial.end();**

**delay(200);**

**pinMode(green\_led, OUTPUT);**

**pinMode(red\_led, OUTPUT);**

**pinMode(yellow\_led, OUTPUT);**

**if((key == 'g') || (key =='G'))**

**{**

**digitalWrite(yellow\_led,HIGH);**

**digitalWrite(green\_led,LOW);**

**digitalWrite(red\_led,HIGH);**

**delay(5000);**

**digitalWrite(yellow\_led,HIGH);**

**digitalWrite(green\_led,HIGH);**

**digitalWrite(red\_led,HIGH);**

**key=0;**

**}**

**else if((key =='y') || (key =='Y'))**

**{**

**digitalWrite(yellow\_led,LOW);**

**digitalWrite(green\_led,HIGH);**

**digitalWrite(red\_led,HIGH);**

**delay(5000);**

**digitalWrite(yellow\_led,HIGH);**

**digitalWrite(green\_led,HIGH);**

**digitalWrite(red\_led,HIGH);**

**key=0;**

**}**

**else if((key == 'r') || (key == 'R'))**

**{**

**digitalWrite(yellow\_led,HIGH);**

**digitalWrite(green\_led,HIGH);**

**digitalWrite(red\_led,LOW);**

**delay(5000);**

**digitalWrite(yellow\_led,HIGH);**

**digitalWrite(green\_led,HIGH);**

**digitalWrite(red\_led,HIGH);**

**key=0;**

**}**

**}**

**OUTPUT:**