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***COURSE:*** *COMPUTER ARCHITECTURE* ***(LAB)***

***TASK #:*** *2*

***SUBMITTED TO:*** *SIR ABUZAR ZAFAR*

***ANSWER # 1:***

***CODE:***

int r1=1;

int y1=2;

int g1=3;

int r2=4;

int y2=5;

int g2=6;

void setup()

{

pinMode(r1,OUTPUT);

pinMode(y1,OUTPUT);

pinMode(g1,OUTPUT);

pinMode(r2,OUTPUT);

pinMode(y2,OUTPUT);

pinMode(g2,OUTPUT);

}

void loop()

{

digitalWrite(g1,HIGH);

digitalWrite(r2,HIGH);

delay(5000);

digitalWrite(r1,LOW);

digitalWrite(y1,LOW);

digitalWrite(y2,LOW);

digitalWrite(g2,LOW);

digitalWrite(g1,LOW);

digitalWrite(y1,HIGH);

digitalWrite(y2,HIGH);

delay(2000);

digitalWrite(y1,LOW);

digitalWrite(y2,LOW);

digitalWrite(r1,LOW);

digitalWrite(r2,LOW);

digitalWrite(g2,LOW);

digitalWrite(r1,HIGH);

digitalWrite(g2,HIGH);

delay(5000);

digitalWrite(r1,LOW);

digitalWrite(g2,LOW);

digitalWrite(y1,LOW);

digitalWrite(g1,LOW);

digitalWrite(r2,LOW);

digitalWrite(y2,LOW);

}

***ANSWER # 2:***

* *Yes, we have embedded resistor in Arduino and its value is 10kΏ.*

***ANSWER # 3:***

***PULL UP RESISTOR*** *makes the default value of digital pin as HIGH.*

***PULL DOWN RESISTOR*** *makes the default value of digital pin as LOW.*