

Experiment No. 7

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

Roll No:SAI&DC75 Batch: S9

Date of Performance: __ / __ / __ __ __ __

Date of Assessment: __ / __ / __ __ __ __

Particulars	Marks
Attendance (05)	
Journal (05)	
Performance (05)	
Understanding (05)	
Total (20)	
Signature of Staff Member	

Program:-

```
int RED = 13;

int GREEN = 12;

int YELLOW = 11;

int BLUE = 10;

char ledToBlink;

void setup() {

    pinMode(RED,OUTPUT);

    pinMode(YELLOW,OUTPUT);

    pinMode(BLUE,OUTPUT);

    pinMode(GREEN,OUTPUT);

    Serial.begin(9600);

}

void loop() {

    int temp;

    if (Serial.available() > 0) {

        ledToBlink = Serial.read();

        if ((ledToBlink == 'r') || (ledToBlink == 'R')) {

            Serial.print("Blinking Red LED\n");

            temp = 13;

        }

        else if((ledToBlink == 'g') || (ledToBlink == 'G')) {

            Serial.print("Blinking Green LED\n");

            temp = 12;

        }

        else if((ledToBlink == 'y') || (ledToBlink == 'Y')){

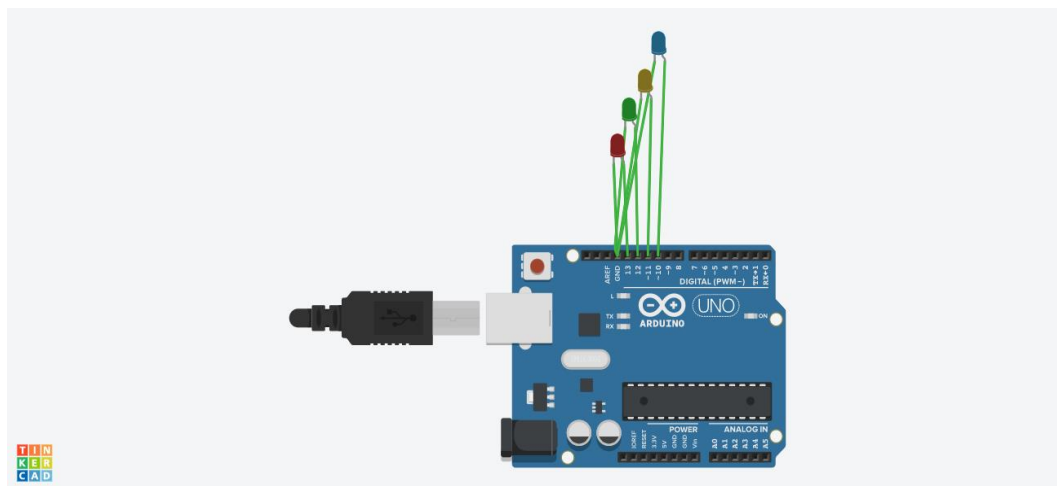
            Serial.print("Blinking Yellow LED\n");
```

```

        temp = 11;
    }
    else if((ledToBlink == 'b') || (ledToBlink == 'B')){
        Serial.print("Blinking Blue LED\n");
        temp = 10;
    }
    else{
        Serial.print("\nInvalid Choice Try Again \n");
    }
    digitalWrite(temp, HIGH);
    delay(1000);
    digitalWrite(temp, LOW);
}
}

```

Circuit Diagram:-



Output:-

