```
int mychar = 0; // for incoming serial data

void setup() {
   Serial.begin(9600); // opens serial port, sets data rate to 9600 bps
   pinMode(8, OUTPUT); // red light
   pinMode(10, OUTPUT); // green light
   pinMode(13, OUTPUT); // yellow light
}

void loop() {
   // send data only when you receive data:
   if (Serial.available() > 0) {
      // read the incoming byte:
      mychar = Serial.read();
      // say what you got:
      Serial.print("I received: ");
      Serial.println(mychar);

      // Control the lights based on the received character
      if (mychar == 'r') { // Red light
         digitalWrite(8,HIGH);
         digitalWrite(10,LOW );
         digitalWrite(13, LOW);

      }
      else if (mychar == 'g') { // Green light
         digitalWrite(8, LOW);
         digitalWrite(10, LOW);
         digitalWrite(13, HIGH);

      }
```

```
    else if (mychar == 'y') { // Yellow light
      digitalWrite(8, LOW);
      digitalWrite(10, HIGH);
      digitalWrite(13, LOW);

    }
    else if (mychar == 'b') { // Blink green light
      for (int i = 0; i < 13; i++) { // Blink 10 times
        digitalWrite(13, HIGH); // Turn on green light
        delay(250); // Wait 250 milliseconds
        digitalWrite(13, LOW); // Turn off green light
        delay(250); // Wait 250 milliseconds
      }
    }
  }
}
```