```
#include <SoftwareSerial.h>
SoftwareSerial BLU(0,1);
#define redPin 6
#define greenPin 3
#define bluePin 5
void setup()
  //Serial setup
  Serial.begin (9600);
  Serial.println("-= HC-05 Bluetooth RGB
LED =-");
  BLU.begin (9600);
  BLU.println("-= HC-05 Bluetooth RGB LED
=-");
  pinMode(4, OUTPUT);
  digitalWrite(4, HIGH);
```

```
pinMode(redPin, OUTPUT);
  pinMode(greenPin, OUTPUT);
  pinMode(bluePin, OUTPUT);
  setColor(255, 0, 0);
  delay(500);
  setColor(0, 255, 0);
  delay(500);
  setColor(0, 0, 255);
  delay(500);
  setColor(255, 255, 255);
void loop()
  while (BLU.available() > 0)
  {
    int redInt = BLU.parseInt();
    int greenInt = BLU.parseInt();
    int blueInt = BLU.parseInt();
    redInt = constrain(redInt, 0, 255);
    greenInt = constrain(greenInt, 0, 255);
```

```
blueInt = constrain(blueInt, 0, 255);
    if (BLU.available() > 0)
    {
      setColor(redInt, greenInt, blueInt);
      Serial.print("Red: ");
      Serial.print(redInt);
      Serial.print(" Green: ");
      Serial.print(greenInt);
      Serial.print(" Blue: ");
      Serial.print(blueInt);
      Serial.println();
      BLU.flush();
    }
void setColor(int red, int green, int blue)
  analogWrite(redPin, red);
  analogWrite(greenPin, green);
  analogWrite(bluePin, blue);
```

{