# Assignment: Buzzer and RGB-LED:

**Exercise 1**

Write a program for the passive buzzer to buzz using the skeleton below.

```
define pin number

int main(void){
initialize wiringPi

 set pinMode

 loop buzzer
 {
 write High or Low
 delay
 }

}
```

**Exercise 2**

Check the wiringPi software tone library http://wiringpi.com/reference/software-tone-library/ and implement 8 tones on the passive buzzer to light 8 different colors on the RGB-LED.

hint 1 : Assuming when all the RGB are Low, a black light is produced.

| R | G | B |
|---|---|---|
| HIGH | HIGH | HIGH |
| HIGH | HIGH | LOW |
| HIGH | LOW | HIGH |
| HIGH | LOW | LOW |
| LOW | HIGH | HIGH |
| LOW | HIGH | LOW |
| LOW | LOW | HIGH |
| LOW | LOW | LOW |

hint 2 : You can also implement using the RGB color codes.