

Software flowchart

- Initialize pins (ledPin - output pin, buttonPin - input pin)
- Initialize flashing rate (2 Hz)



check for button press
(digitalRead (buttonPin))

↓ if TRUE

change operating mode

if mode 4

↓ if mode 0-3

set PWM to some
fraction of PWM_MAX(255)
using switch case tree



digitalWrite (ledPin, PWM)

flashing light function
(check if 500 ms have
passed using millis())

→
if
FALSE

ledPin
state
remains
low

if TRUE

↓
write ledPin
state to HIGH
and mark
current time