Software Flow

```
define constants:

Clash Rate Hz = 2

button In = D2

White LEDout = D3

red LEDout = D4

gren LEDout = D5

blue LEDout = D6

pum Max = 255

debance Delay = 50

battery Voltage In = A7

low Rattery Voltage = 7.5

med Battery Voltage = 8.5
```

declare variables; mode = 0

button Pushed = True
pum Out = 0

prev Button State = 0

last Debource Time = 0

battery Voltage = 0

Software How		
Setup: [attach Interrupt (digital PinTo Interrupt (butter In), detect	-ButtenPress (HANGE)	
attach Interrupt (digital Pin 18 Interrupt (digital Pin 18 Interrupt)		
detect Button Press() used as ISR Sets button Pushed > ! button Aushed only if bu	nich increments mode 12.3, 4, 0, 1, 2. t. but utton Pushed charged 1 - last Debource Time 7 deboure Delay	
node antenne	ne LED (prmout) ilog Write (white LEDant, prmout)	white LED functionality
3 (" = int(prontax/4), " delay (I LOS () BOST ED OUT HIGH)	Lafter Steadistal
	(1000 * AnhRade Hz	Matte Constitution
	output hattery Indicator (butter	voldage)
Check Battery ()	if/elseit	red=LOW, blue=LOW, gren=LOW
battery Voltage = analog Read (battery Voltage In)	battery Voltage < 100	
H note: 102,4 is a conversion factor to correct battery's	battery Voltage < 102.4 * law Battery Voltage	red=HIGH, blue=LOW, green=LOW red=LOW, blue=HIGH, green=LOW
actual voltage to 0-1023 ld bit scale; (bott. ultage) /51, 1024 = bott, ultage. 1024	else	red=Low, blue=Low, green = HIGH