|  |
| --- |
| // Enter CONSTLAT mode if desired, otherwise LOWPWR mode will be used (LOWPWR is recommended for most applications) |
|  |

|  |
| --- |
| //NRF\_POWER->TASKS\_CONSTLAT = 1; |

//----------------------------------------------------------------------------------------------------------------------------------------

 // Disable DC/DC converter to save power

 // enable low power mode

 NRF\_POWER->DCDCEN = 0;

 NRF\_POWER->TASKS\_LOWPWR = 1;

//----------------------------------------------------------------------------------------------------------------------------------------

 \_\_WFE();

 \_\_SEV(); // Make sure any pending events are cleared

 \_\_WFE();

//---------------------------------------------------------------------------------------------------------------------------------------

NRF\_POWER->SYSTEMOFF = 1;

//---------------------------------------------------------------------------------------------------------------------------------------

\_\_WFI();

//---------------------------------------------------------------------------------------------------------------------------------------

ram\_1 = POWER\_RAMON\_ONRAM0\_Msk | POWER\_RAMON\_ONRAM1\_Msk | POWER\_RAMON\_OFFRAM0\_Msk | POWER\_RAMON\_OFFRAM1\_Msk;

err\_code = sd\_power\_ramon\_set(ram\_1);

APP\_ERROR\_CHECK(err\_code);

//----------------------------------------------------------------------------------------------------------------------------------------

 nrf\_gpio\_cfg\_input(20, NRF\_GPIO\_PIN\_PULLUP);

 nrf\_gpio\_cfg\_sense\_input(19, NRF\_GPIO\_PIN\_NOPULL, NRF\_GPIO\_PIN\_SENSE\_LOW);

NRF\_GPIOTE->CONFIG[0] = (GPIOTE\_CONFIG\_POLARITY\_HiToLo << GPIOTE\_CONFIG\_POLARITY\_Pos) | // NORDIC: "Toggle" will trigger your IRQ when you push AND release your buttong. Do you want this? YOu can use e.g. GPIOTE\_CONFIG\_POLARITY\_HiToLo to trigger on button push only.

 (20 << GPIOTE\_CONFIG\_PSEL\_Pos) |

 (GPIOTE\_CONFIG\_MODE\_Event << GPIOTE\_CONFIG\_MODE\_Pos);

 NRF\_GPIOTE->INTENSET = GPIOTE\_INTENSET\_IN0\_Set << GPIOTE\_INTENSET\_IN0\_Pos;

 // Enable interrupt:

 sd\_nvic\_SetPriority(GPIOTE\_IRQn, NRF\_APP\_PRIORITY\_HIGH); // NORDIC Set interrupt priority. See the S110 Softdevice Specification for more info on interrupt priorities.

 sd\_nvic\_EnableIRQ(GPIOTE\_IRQn); // NORDIC: Enable after everything is setup

//-----------------------------------------------------------------------------------------------------------------------------------------

void GPIOTE\_IRQHandler(void){

 if ((NRF\_GPIOTE->EVENTS\_IN[0] == 1) && (NRF\_GPIOTE->INTENSET & GPIOTE\_INTENSET\_IN0\_Msk))

 {

 NRF\_GPIOTE->EVENTS\_IN[0] = 0;

 }

display\_ON();

 }