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

// TP1\_BSE.c

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

// AUTH: LAJUGIE Rodolphe, CORNATON Maxime

// DATE: 15/11/2022

//

// Target: C8051F02x

// Tool chain: KEIL Microvision5

//

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

// Déclarations Registres et Bits de l'espace SFR

#include "intrins.h"

#include<c8051F020.h>

#include<c8051F020\_SFR16.h>

#include<TP1\_BSE\_Lib\_Config\_Globale.h>

#include<TP1\_BSE\_Lib\_Divers.h>

#define LED\_ON 1

#define LED\_OFF 0

#define BP\_PRESSED 1

#define BP\_NOT\_PRESSED 0

#define CLIGNOTEMENT 1

sbit LED = P1^6; // LED

sbit BP = P3^7; //BP

bit ETAT\_LED = 1;

bit ACK\_BP = 1;

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

// Function Prototypes

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

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

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

// MAIN Routine

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

void main (void) {

Init\_Device();

//Accès au port en mode GPIO sortie du port

P3MDOUT &= ~(1<<7);

BP = 1;

while(1)

{

if(BP == BP\_PRESSED && ACK\_BP == BP\_NOT\_PRESSED) //Si le bouton est pressé sans être maintenu

{

ACK\_BP = BP\_PRESSED;

ETAT\_LED = !ETAT\_LED;

}else{

if(BP == BP\_NOT\_PRESSED){

ACK\_BP = BP\_NOT\_PRESSED;

}

}

if(ETAT\_LED == CLIGNOTEMENT){

LED = LED\_ON;

Software\_Delay(2); // Allumaghe 20ms

LED = LED\_OFF;

Software\_Delay(10); // Extinction 100ms

}else{

LED = LED\_OFF;

}

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*