C18 Program Template

The following shows a (blank) template for C18 programs that should be adhered to, when building C18 projects. The names and values used are for illustration only; replace these with actual and meaningful names.

```
/*******************
     Program info
     Name
     Date
     Program name
     Program description
*******************/


//   …………………………………………Include files -------------------------------------------------
//   List all header files that are required
     #include <p18F2420.h> // replace with the processor specific file, if required
// -------------------------------------------------------------------------------------------------------


//   …………………………………………Processor Configurations ---------------------------------------------------
//   Place statements related to processor/hardware specific configurations
     #pragma config WDT = OFF
     #pragma config OSC = INTIO67
// -------------------------------------------------------------------------------------------------------



//   …………………………………………Prototype declarations-----------------------------------
//   List prototypes of all the functions that are defined
     void function1 (void);    // replace with the specific function name and arguments
     void function2 (int x, int y, char c);
                             // replace with the specific function name and arguments
     char function3 (int num, char c);
                             // replace with the specific function name and arguments
// -------------------------------------------------------------------------------------------------------


//   …………………………………………Constants declarations ---------------------------------------------------
//   Declare all constants
     #define        NUM    1250
                       // replace the constant name (NUM) with the defined value (1250)
// -------------------------------------------------------------------------------------------------------

//   …………………………………………Global variable declarations ---------------------------------------------------
//   Declare all global variables
     int  result = 2000;
                       // define a variable of the type integer and the set initial value
     char first_char;
                       // define a variable of the type integer.
                       // the initial value is not set, it will be random till initialized or set
// -------------------------------------------------------------------------------------------------------
```

```
// Program Section
// ---------------------
// define all the functions, starting with main.
// Use indentations.


void main (void)
{
    …….
    ……


}
//   ----------------------------------------------------------------------------------------------


void function1 (void)
{
    // explain the purpose of this function
    …….
    ……


}
//   ----------------------------------------------------------------------------------------------


void function2 ((int x, int y, char c)
{
    // explain the purpose of this function
    …….
    ……


}
//   ----------------------------------------------------------------------------------------------


char function3 (int num, char c)
{
    // explain the purpose of this function
    …….
    ……


}
//   ----------------------------------------------------------------------------------------------


//   --------------------------- End of Program --------------------------------------------------
```