PIC 18F4550 EM C

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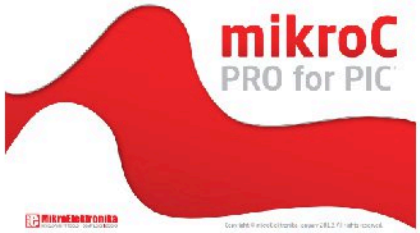
Criar Ambiente

- Crie uma pasta na raiz do HD ou, preferencialmente na pendrive, com o nome "MikroC"
- Abra o MikroC já instalado



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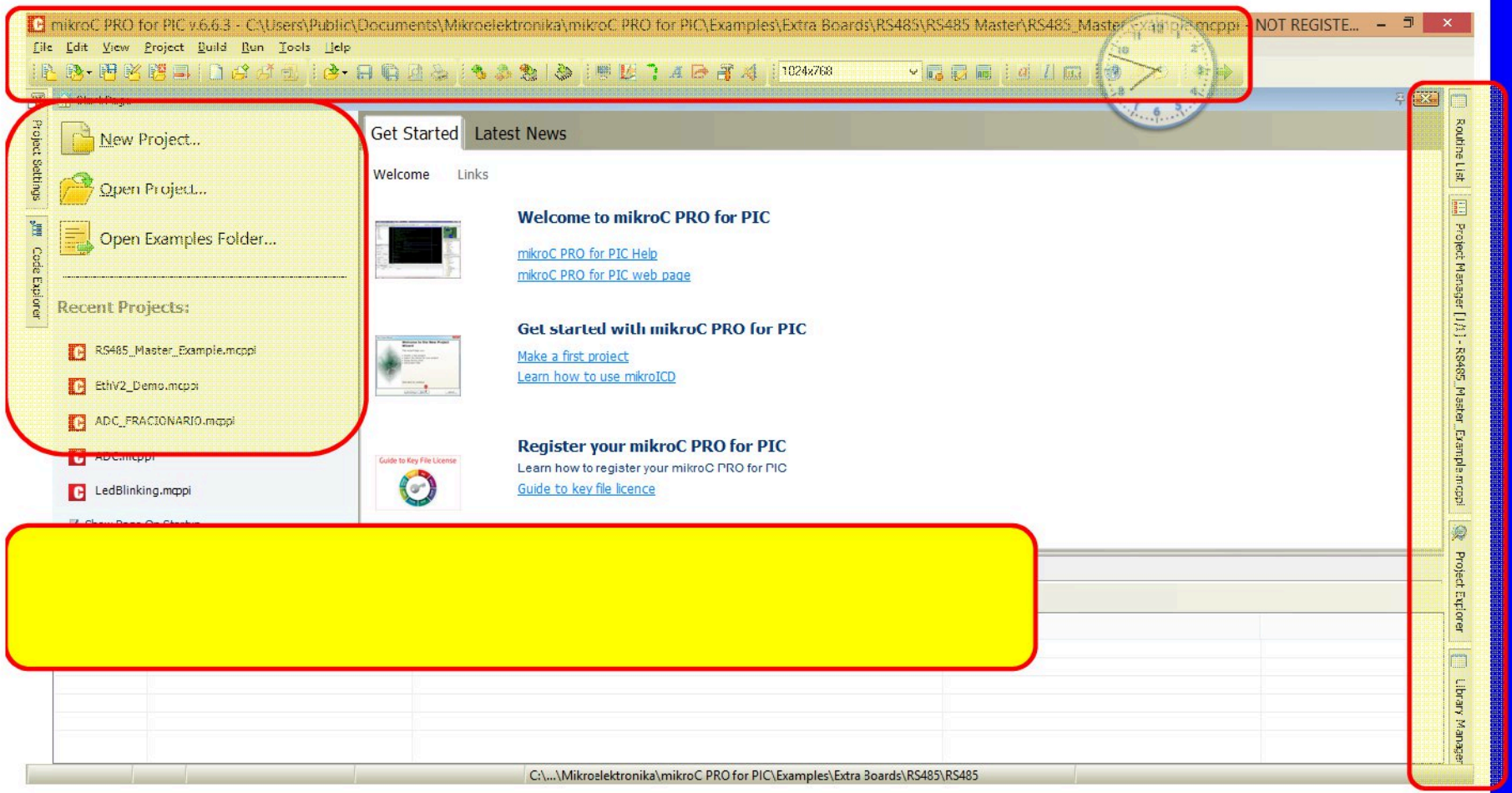
Tela principal



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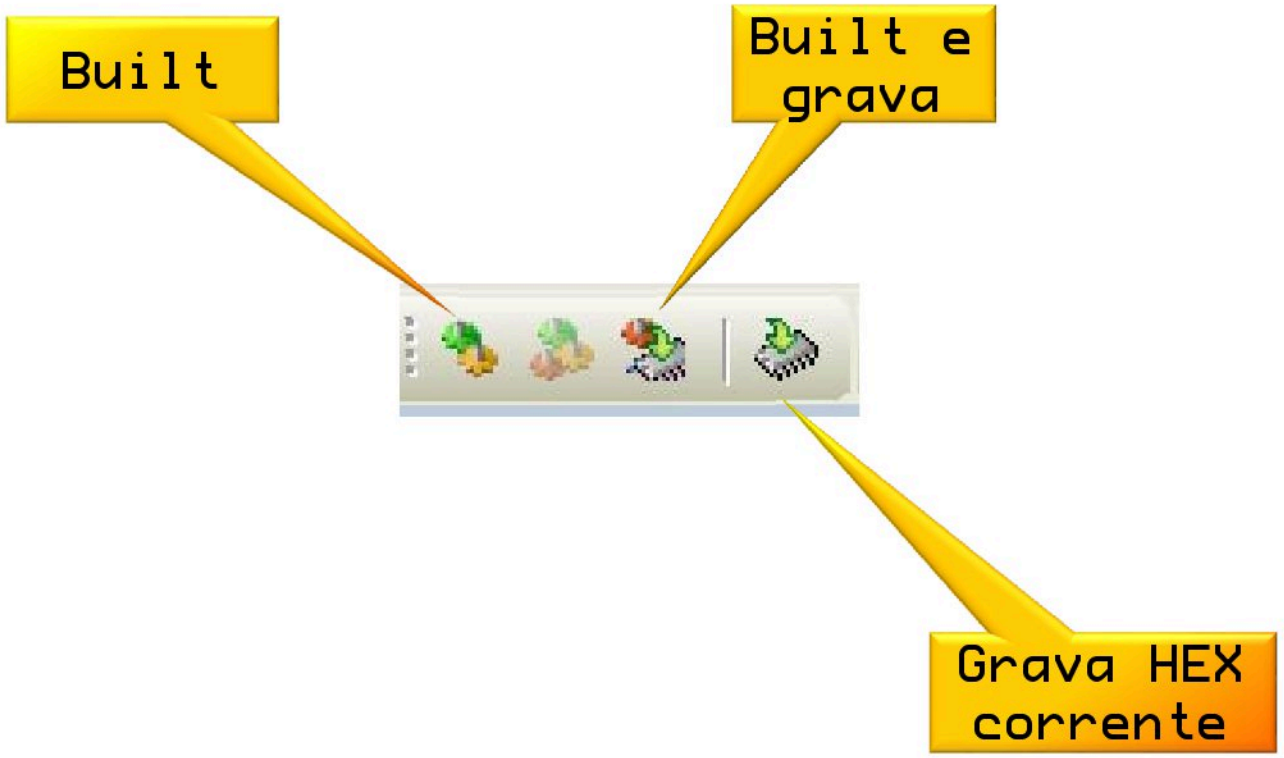
Sobre os comandos



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Menu lateral

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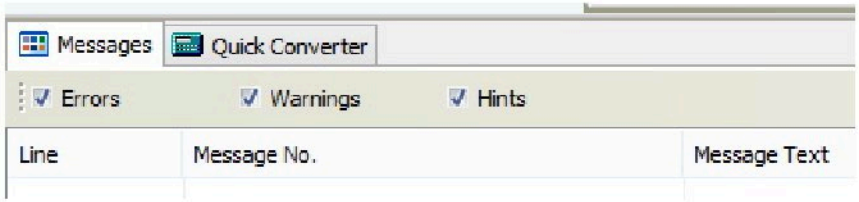
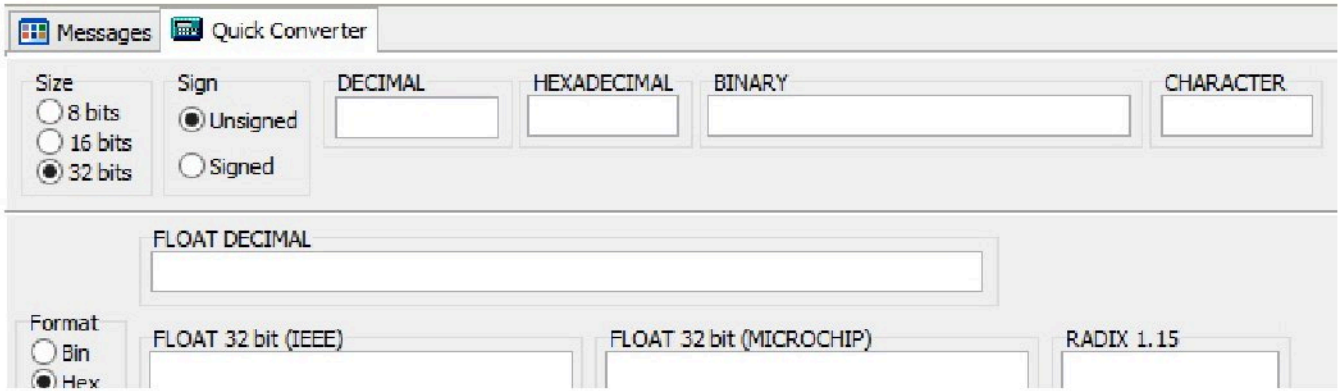
Janelas auxiliares





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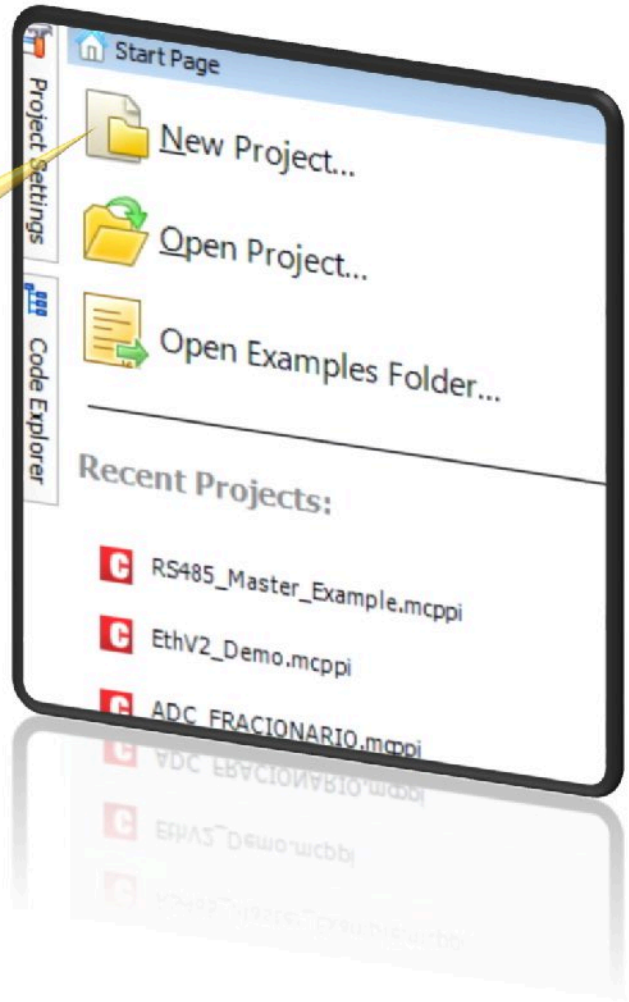
Abre Projeto

Abertura de novo projeto



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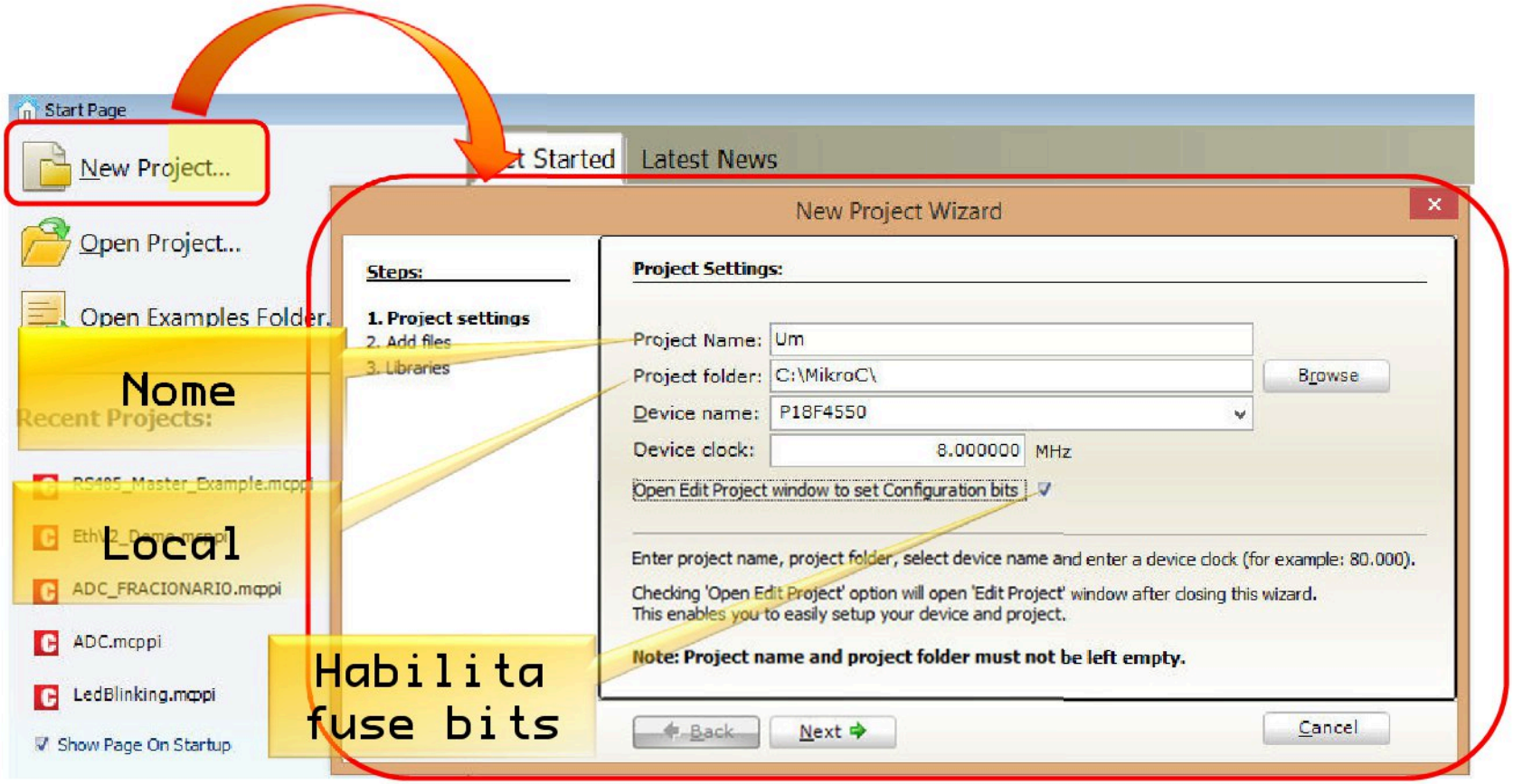
Um "New Project"



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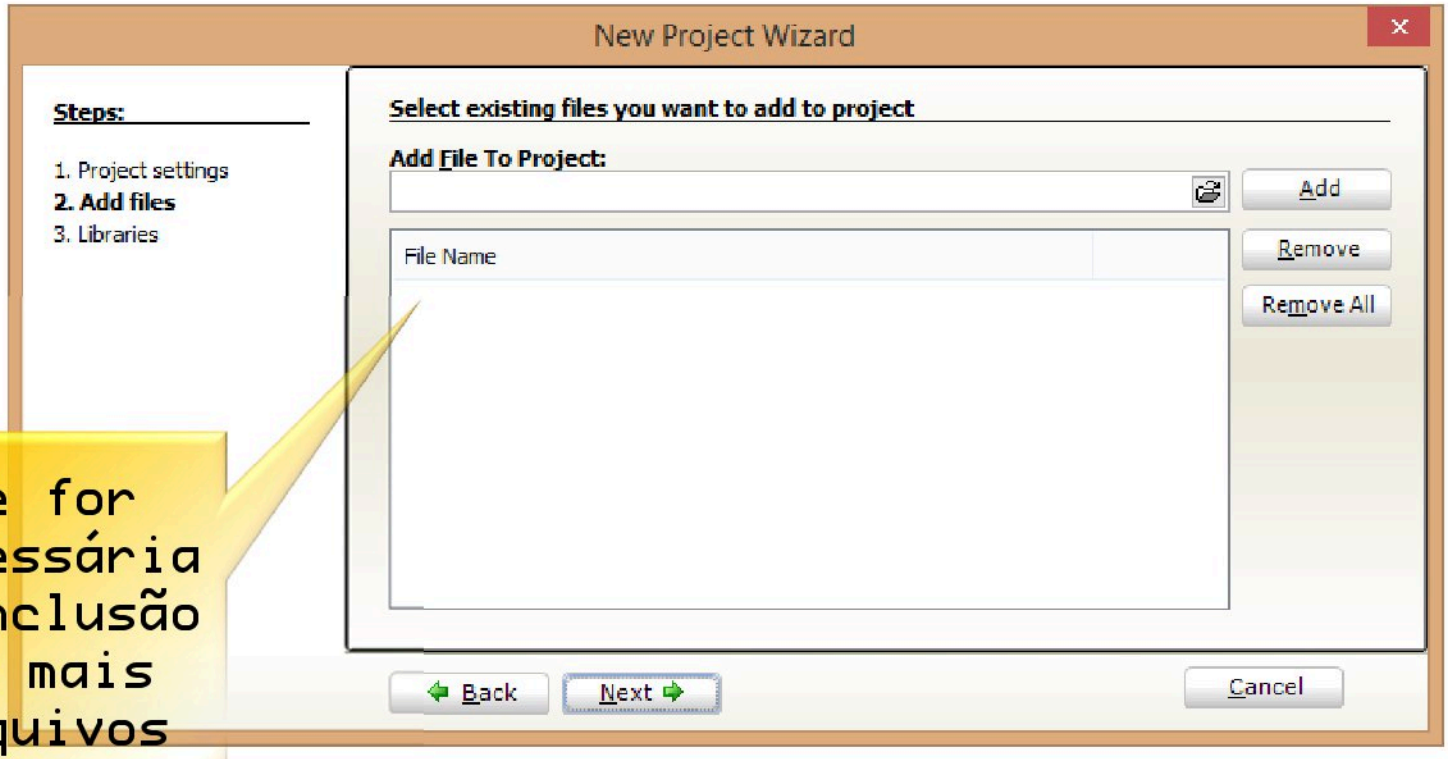
Adicionar arquivos



Se for necessária a inclusão de mais arquivos

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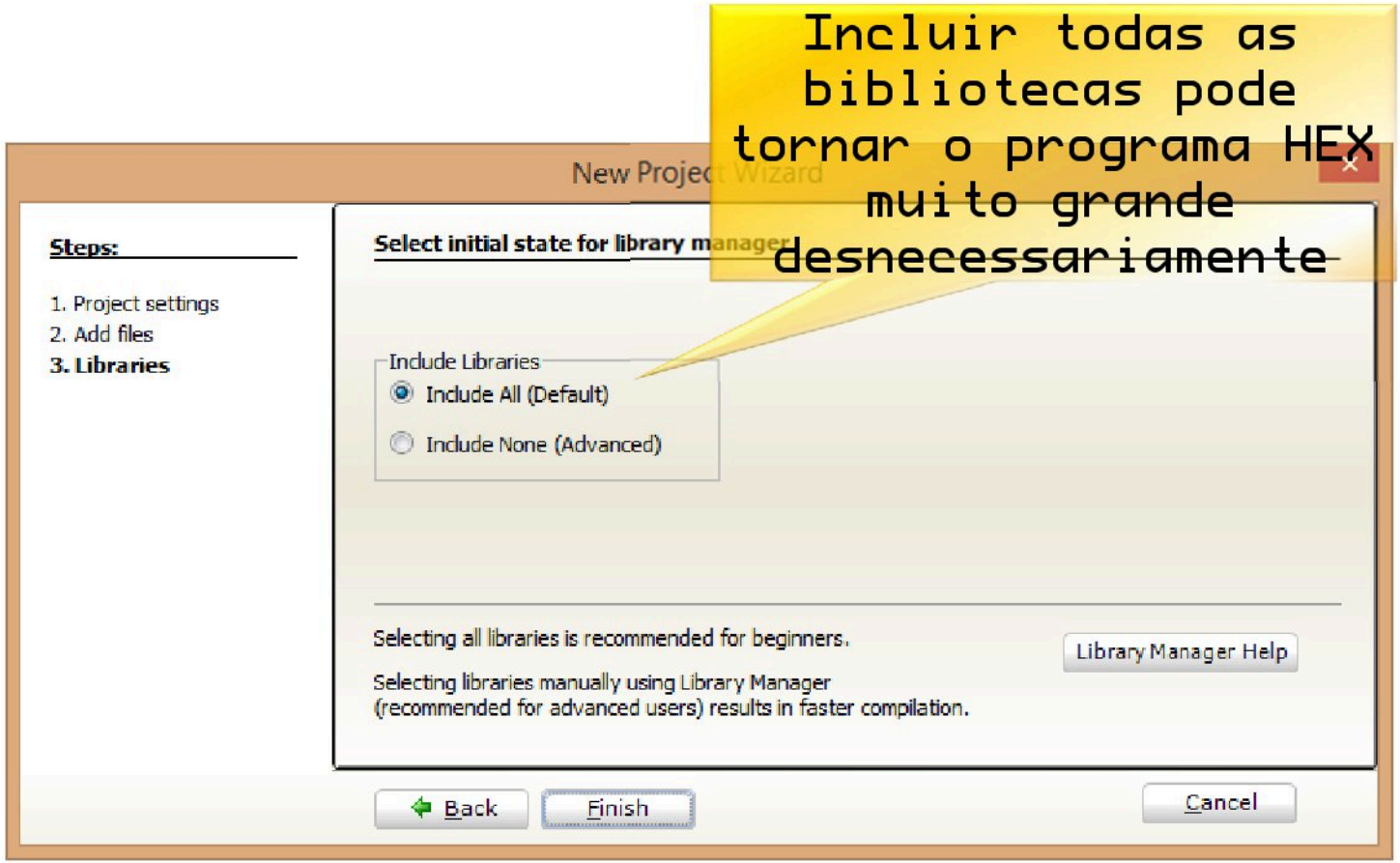
Bibliotecas



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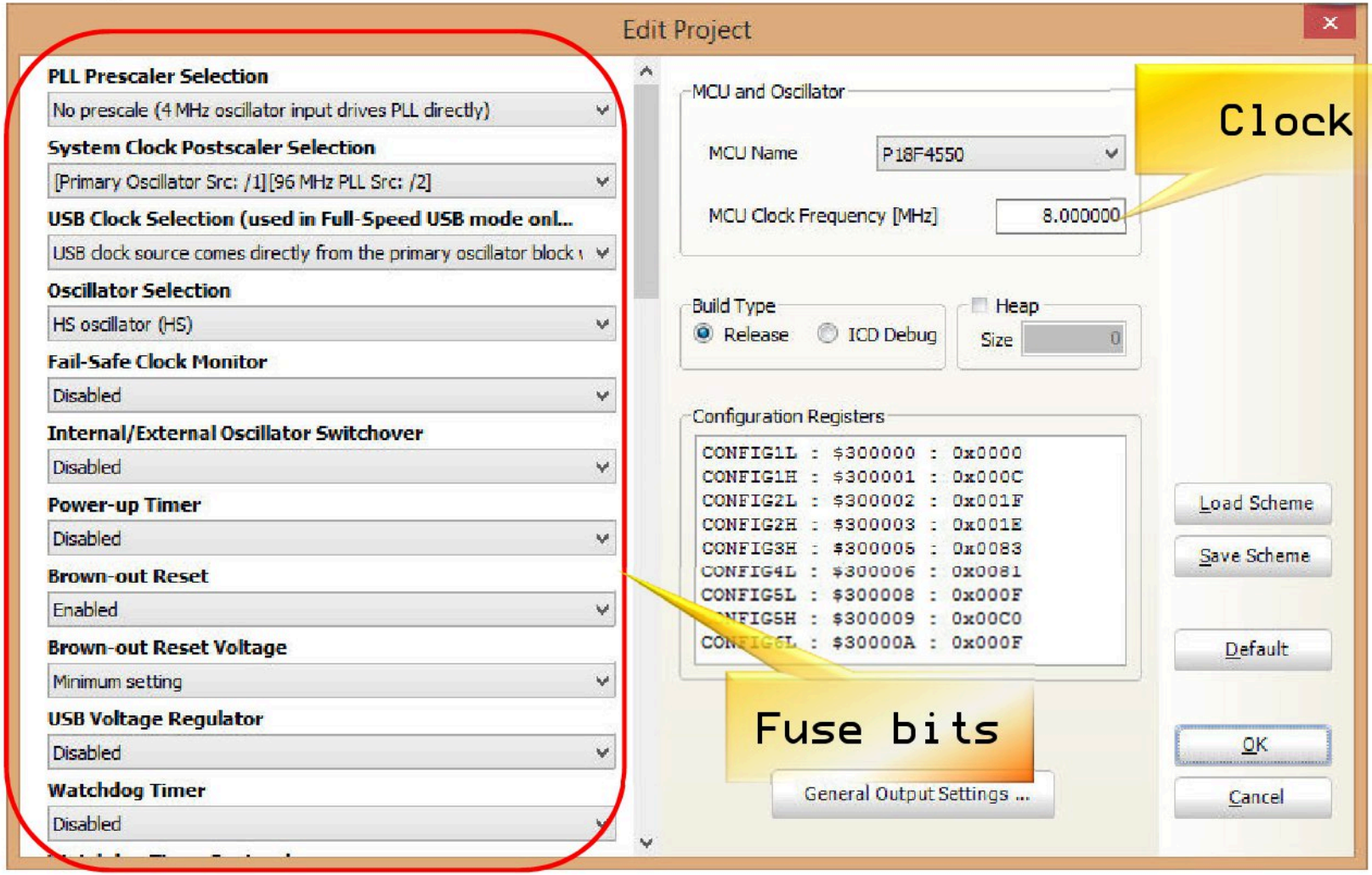
Os fuse bits

- Aqui definimos as características necessárias ao PIC.



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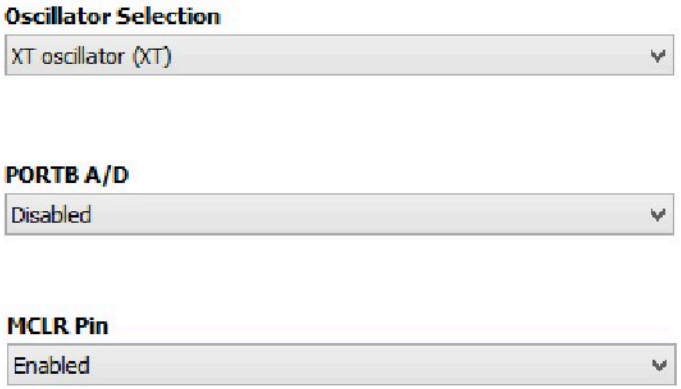
Necessários alterar



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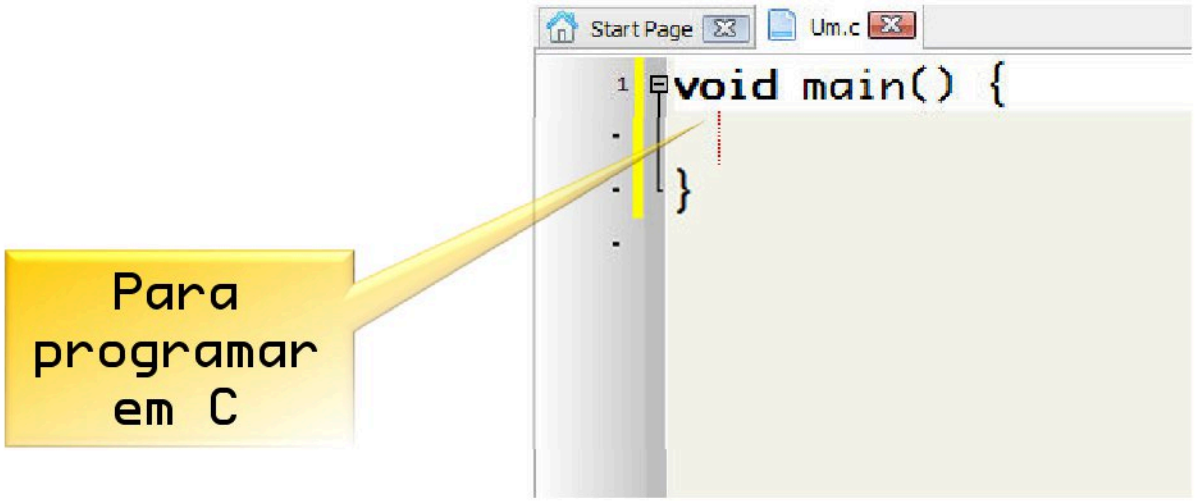
Janela final para criar código



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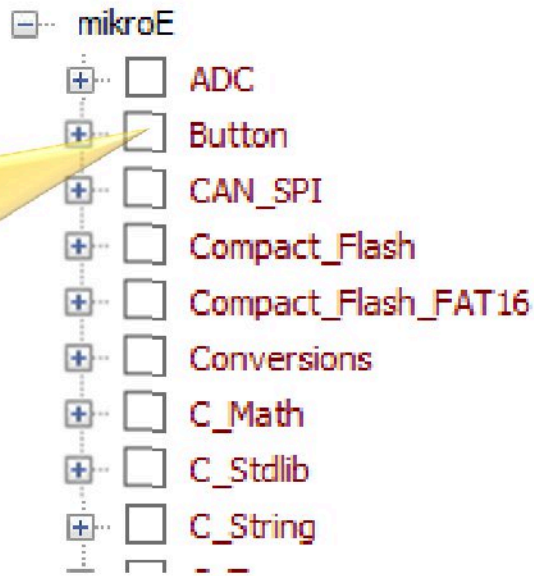
Seleção de biblioteca

Clicando aqui habilitamos as funções de botão, por exemplo



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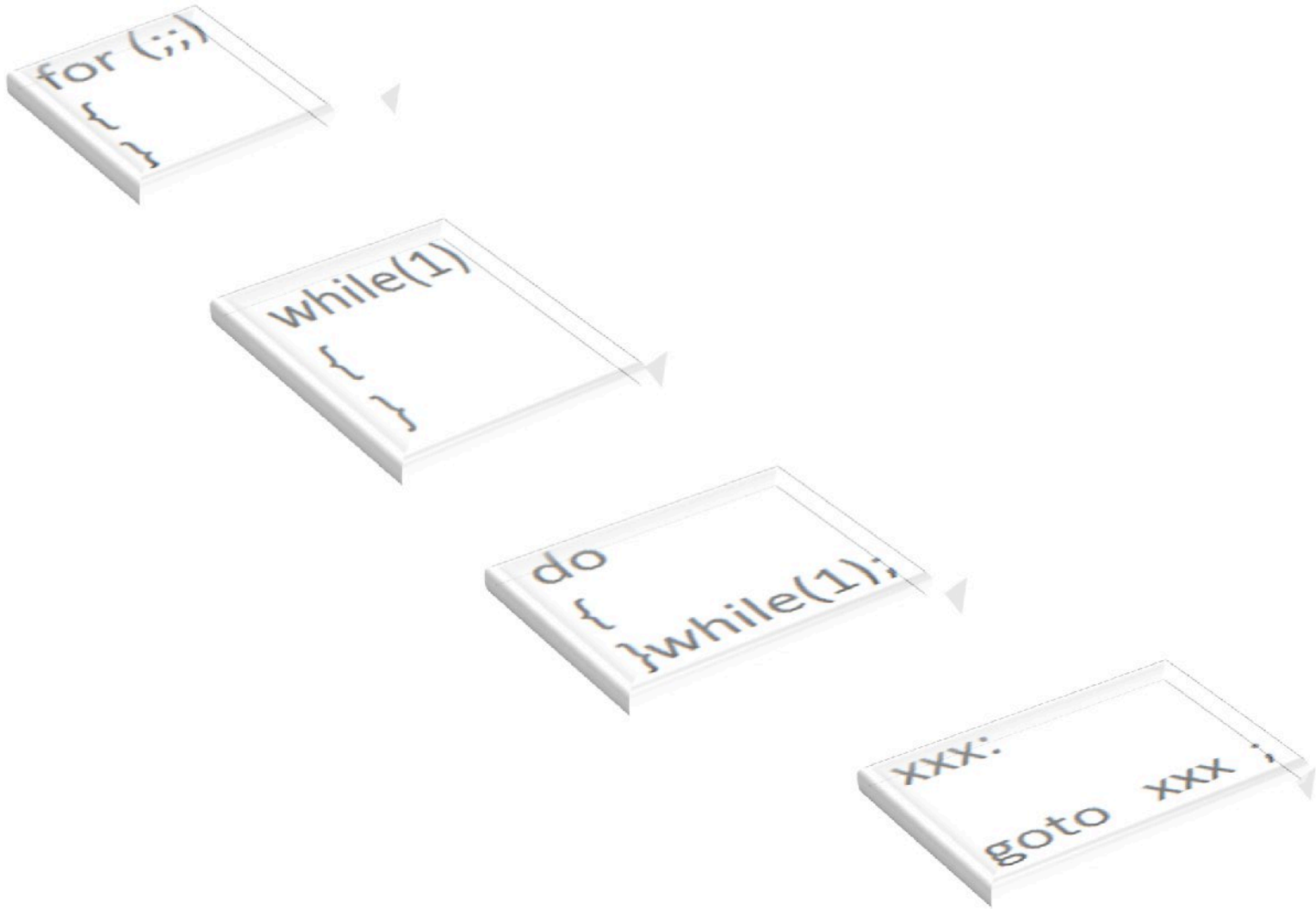
Opções para o loop permanente



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O programa

```
/*-------------------------------------------------------------
 Programa: um.c
 Autor    : Prof. Vargas
 Data     : 19/02/2017
 Descrição:
 Aqui os LEDs invertem a cada 1 S e estão alternados para melhor
 visualização
 -------------------------------------------------------------*/
void main()
{
    TRISB = 0;    // seta PORTB como saída digital
    LATB = 0b10101010;  // Prepara situação inicial dos LEDs
    while(1)
    {
        LATB = ~LATB;  // Inverte os bits do PORTB
        Delay_ms(1000);
    }
}
```

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Já alguns cuidados com I/O

PORTC is a 7-bit wide, bidirectional port. The corresponding Data Direction register is TRISC. Setting a TRISC bit (= 1) will make the corresponding PORTC pin an input (i.e., put the corresponding output driver in a high-impedance mode). Clearing a TRISC bit (= 0) will make the corresponding PORTC pin an output (i.e., put the contents of the output latch on the selected pin).

The RC3 pin is not implemented in these devices.

The Data Latch register (LATC) is also memory mapped. Read-modify-write operations on the LATC register read and write the latched output value for PORTC.

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