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/* ***** */
/* File name:      util.h */
/* File description: Header file containing the function/methods */
/*      prototypes of util.c */
/*      Those delays were tested under the following: */
/*      core clock @ 40MHz */
/*      bus clock @ 20MHz */
/* Author name:    dloubach */
/* Creation date:   09jan2015 */
/* Revision date:   09jun2020 */
/* ***** */

#ifndef UTIL_H
#define UTIL_H

/* ***** */
/* Method name:      util_genDelay088us */
/* Method description: generates ~ 088 micro sec */
/* Input params:     n/a */
/* Output params:    n/a */
/* ***** */
void util_genDelay088us(void);

/* ***** */
/* Method name:      util_genDelay250us */
/* Method description: generates ~ 250 micro sec */
/* Input params:     n/a */
/* Output params:    n/a */
/* ***** */
void util_genDelay250us(void);

/* ***** */
/* Method name:      util_genDelay1ms */
/* Method description: generates ~ 1 mili sec */
/* Input params:     n/a */
/* Output params:    n/a */
/* ***** */
void util_genDelay1ms(void);

/* ***** */
/* Method name:      util_genDelay10ms */
/* Method description: generates ~ 10 mili sec */
/* Input params:     n/a */
/* Output params:    n/a */
/* ***** */
void util_genDelay10ms(void);

/* ***** */
/* Method name:      util_genDelay100ms */
/* Method description: generates ~ 100 mili sec */
/* Input params:     n/a */
/* Output params:    n/a */
/* ***** */
void util_genDelay100ms(void);

/* ***** */
/* Nome do metodo:      extrai_digito */
/* Descricao:           Extrai digitos de um numero e armazena num vetor */
/*      */
/*      */
/* Parametros de entrada: numero -> numero que os digitos serao extraidos */
/*      digitos -> vetor onde os digitos serao armazenados */
/*      */
/* Parametros de saida:  n/a */

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/* ***** */  
void extrai_digito(unsigned int numero, unsigned char* digitos);  
  
#endif /* UTIL_H */
```