

```
1  /*****
2   * Name:      UTIL.c
3   * Description: Utility functions
4   * Version: V1.00
5   * Author: Ammar Alvi & Shannon D'Souza
6   *
7   * This software is supplied "AS IS" without warranties of any kind.
8   *
9   *
10  *****/
11
12  #include "stm32f10x.h"
13  #include <stdint.h>
14  #include "GPIO.h"
15
16
17  /*
18  * Name:      void delay()
19  * Paramaters: 32 bit delay value, ( a value of 6000
20  *              gives approximately 1 mS of delay)
21  * Description: This function creates a delay
22  */
23  void delay(uint32_t count)
24  {
25
26      int i=0;
27      for(i=0; i< count; ++i)
28      {
29      }
30  }
31
32  /*
33  * Name:      uint8_t delay()
34  * Paramaters: 16 bits value to convert to its ascii form
35  * Description: Adds a specific hex value to convert to its
36  *              ascii form
37  */
38
39  uint8_t to_ascii(uint16_t val)
40  {
41      uint8_t asci = val;
42
43      if (val > 0x9)
44      {
45          asci = asci + 0x37;
46      }
47      else
48      {
49          asci = asci + 0x30;
50      }
51      return asci;
52  }
53
54
```