EMBSYS 310 - AU21

ASSIGNMENT 04

1. Follow the same steps as we did in the class to blink LED1 (PA5) at a visible rate using the bit- band region to enable the clock for Port A, then answer the following:
   1. What instructions does the compiler produce in assembly for “writing” to the

**RCC\_AHB2ENR** bit when using bit-band address?

A screenshot of a computer

Description automatically generated with low confidence

* 1. What were the instructions produced when writing to the **RCC\_AHB2ENR** without using bit-banding?

Graphical user interface, text

Description automatically generated with medium confidence

1. Create a function “func1” with 5 arguments and call “func1” from within another function

“func2”. Trace thru the assembler and note:

* 1. How does the **calling** function “func2” pass the values to the **called** function “func1”?

It moves the values into R0-R3 for the first 4 values, but pushes the 5th value to the Stack

* 1. What extra code did the compiler generate before calling the function “func1” with the multiple arguments?

Table

Description automatically generated

* 1. What extra code did the compiler generate inside the **called** function “funct1” with the list of multiple arguments?

Text

Description automatically generated