# Laboration 3 Task 1 Questions

1. What is the maximum value that the SysTick counter can start counting down from?   
Since the SysTick is a 24-bit counter, its highest starting value is 224 – 1, which is about 16.7 million.  
  
2. What are the addresses of the CTRL, LOAD and VAL registers?

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| **Registers** | **Addresses** |
| CTRL | 0xE000E010 |
| LOAD | 0xE000E014 |
| VAL | 0xE000E018 |

3. To use register names (CTRL, LOAD and VAL) in my assembly code, how to define them? (Hint: EQU)   
  
  
4. What is the value to be written in the LOAD register to activate the SysTick interrupt every 2 ms, in case the Clock Source is 12MHz?   
5. What are the clock sources that you choose from to configure the SysTick?   
6. Write down an assembly program that enables SysTick interrupt with a period of 5 ms.