**COS10004: Computer Systems**

**Assignment 2 – ARM Assembly Programming**

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**Video link:** <https://drive.google.com/file/d/1l-iRdj-XsvnRZGd2VWoRqKm9zOZ_Iny5/view?usp=sharing>

**Demonstration:**

* Starting code test with ***7 flashes***
* Stage 1: Output ***1 flash***at the start

+) Stage 1a: ***2 flashes***(Minimum value of 3, 2, 4)

+) Stage 1b: ***4 flashes***(Maximum value of 3, 2, 4)

+) Stage 1c: ***2 flashes***(Maximum value – minimum value = 4 – 2 )

* Stage 2: Output ***2 flashes***at the start

numarray1: 5,1,4,2,3,3,4,1

* ***5 flashes – 1 flash – 4 flashes – 2 flashes – 3 flashes – 3 flashes – 4 flashes – 1 flash***
* Stage 3: Output ***3 flashes*** at the start

Sorted numarray1: 1,1,2,3,3,4,4,5

* ***1 flash – 1 flash – 2 flashes – 3 flashes – 3 flashes – 4 flashes – 4 flashes – 5 flashes***