

MC-IOT Lab Question Output Process

Q.1

- 1) After writing the code ----> **Save** ----> **Build** ----> **Debug**.
- 2) Open Memory window 2 ----> Enter the source address “ **0x20000000** ” in memory window ----> Change the Starting few digits (Ex. Fig 2) ----> Click on **step** button continuously till it stops. ----> You will observe copied output in next lines (Ex. Fig 2).

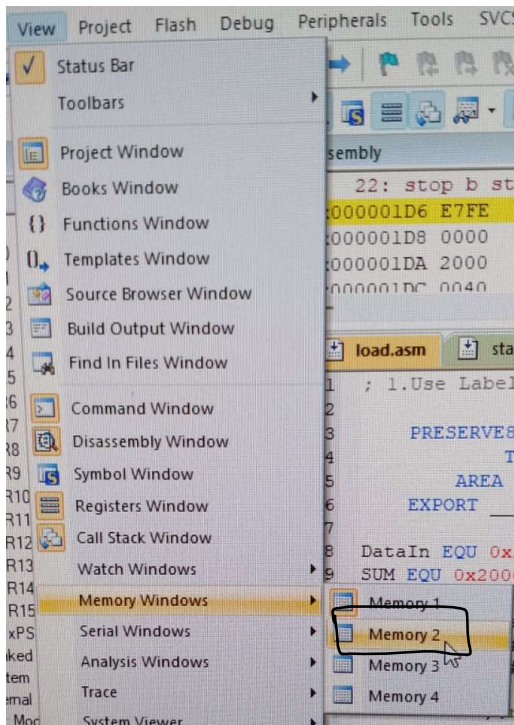


Fig.1

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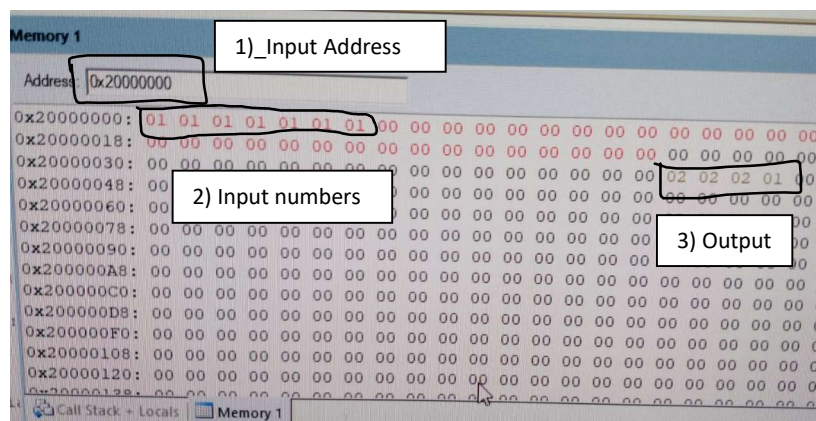
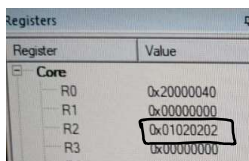


Fig.2



Output can also be observed in registers window.

Note: Red marking in Fig.2 show all 10 position after 10 loop cycles.

Codes Refer : https://github.com/Haksham/SEM-Codes/tree/master/MC-iot_Test

Q.2

- 1) After writing the code ----> **Save** ----> **Build** ----> **Debug**.
- 2)) Open 2 Memory window 1 and 2 ----> Enter the source address "**0x20000000**" in memory window 1----> Enter the destination address "**0x20000120**" in memory window 2 ----> Change the Starting few digits in **window 1** (Ex. Fig 1) ----> Click on **step** button continuously till it stops. ----> You will observe copied output in next **window 2** (Ex. Fig 2).

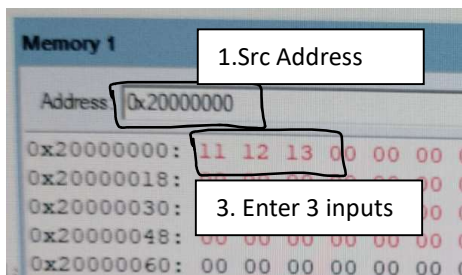


Fig.1

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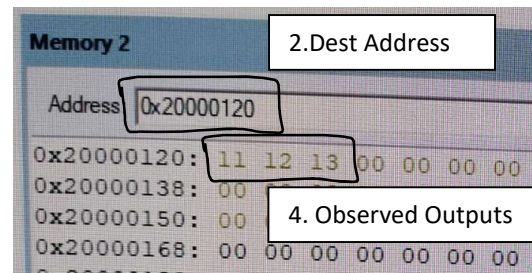


Fig.2

Q.3

- 1) After writing the code ----> **Save** ----> **Build** ----> **Debug** ----> **Step** continuously.
- 2) As per the code input for both LSLS and ASRS is "**0x00000080**".
- 3) In Figure below **R1** stores the output for **ASRS**
R2 stores the output for **LSLS**

Core	
R0	0x000001C5
R1	0x00000008
R2	0x00000800

Q.4

- 1) After writing the code ----> **Save** ----> **Build** ----> **Debug** ----> **Step** continuously.
- 2) As per the code input for both **Extraction** and **Clearing** is "**0x00000080**".
- 3) In **Fig 1** shows output of **Extraction** in **r0** when half the **steps** are done.
Fig 2 shows output of **Clearing** in **r0** when complete **steps** are done.

Core	
R0	0x000000C0
R1	0x00000000
R2	0x50000024

Fig.1

Core	
R0	0xFF00FFFF
R1	0x00000010
R2	0x00000008

Fig.2