**Assembly Language – Integer Arithmetic (2)**

|  |  |  |
| --- | --- | --- |
| Group:36 | Student ID:109502517 | Name:洪啟貿 |
| Student ID:109502555 | Name:蔡明翰 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| .code  main PROC  What are the register values at each position?   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  | AX | |  | | | | L1: |  | AH | AL | CL | | | | mov ax, 9000h |  | 90h | 00h | 00h | | | | mov cl, 10h |  | 90h | 00h | 10h | | | | div cl |  | 90h | 00h | 10h | | | |  |  | Why: 算出來的商是900h，商要存在AL裡，但是AL只有2位，因此overflow，故ah跟al都留原本的值。 | | | | | |  |  |  |  |  |  |  |   （三个空格答对才加分～）  main ENDP  END main |