8086 program to divide a 16 bit number by an 8 bit number

**Problem –** Write an assembly language program in 8086 microprocessor to divide a 16 bit number by an 8 bit number.

Program:

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| **MEMORY ADDRESS** | **MNEMONICS** | **COMMENT** |
| 0400 | MOV SI, 500 | SI <- 500 |
| 0403 | MOV DI, 600 | DI <- 600 |
| 0406 | MOV BL, [SI] | BL <- [SI] |
| 0408 | INC SI | SI <- SI + 1 |
| 0409 | MOV AX, [SI] | AX <- [SI] |
| 040B | DIV BL | AX <- AX / BL |
| 040D | MOV [DI], AX | [DI] <- AX |
| 040F | HLT | End of program |