



Assembly Review Sheet 2

Question

Identify the flags affected by each of the following actions

Question

What are the functions of the following registers: IP register, SP register

IP Register:

The 16-bit IP register contains the **offset address** of the next instruction that is to execute.

SP Register:

The 16-bit SP register provides an **offset** value, **which, when associated with** the SS register (SS: SP), refers to the current word being processed in the stack

Question

During execution of a program, CS contains 4AB6[0]H, SS contains 4A82[0]H,

IP contains 36H, and SP contains 28H. Calculate

- a) address of top of the stack (b) *the* instruction to execute.

Question

Discuss the all types Registers of the Processor 8086.

Question

Calculate the address of the next instruction to be execute for the following:

The Register Values CS = 00C5H & IP = 0022H .

Question

What is the address determined by the sum of SS and SP registers?

Question

What is the initial value in SP register?

If SP contains 35H, SS = 35DAH & AX contains 53BBH, & BX = 3A3Ah
determine the contents of the stack and value of SP after execution of
the instruction: PUSH AX & PU BX, POP BX, &POP AX.

Question

Write the Assembly Code to solve the following equation:

$$Z = 3X + Y / 5H$$

Where: X =25, Y =37, H =2.

Once using: the Conventional Segment Directive &
Another using: the Simplified Segment Directive.