EE 390: HOME WORK-2

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Assume, **DS=CS=SS=ES=2000$_H$, AX=0400$_H$, BX=0500$_H$, CX=0600$_H$**
DX=0600$_H$, SI=0700$_H$, DI=0400$_H$, BP= 0020$_H$, SP=0AF0$_H$,
and answer the questions below;

1. Write a program that will load the value of **CX** register into **BX** register using register addressing mode.

2. Write a program that will load **1A34$_H$** into the **CX** register using **Immediate** addressing modes.

3. Write a program that will load **B034$_H$** into the **AX** register using **Indirect** memory addressing modes.

4. Write a program to load **CX** register using **Direct** addressing mode from the memory location of physical address of **2002A$_H$**. (Use the given value to **DS** to compute the offset or effective address).

5. -Write a program to load **CX** register with the content of an EXTRA segment memory location, using **Based** addressing mode.
   -Use the given values of **ES** and **BX** with displacement = **25$_H$** to find the Physical Address (PA) of the source operand.

6. -Write a program to load **AX** register with the content of a DATA segment memory location, using **Indexed**-addressing mode.
   -If displacement is **61$_H$**, use the given values to find the physical address of the source operand.

7. -Write an assembly language program to move the contents of **DX** register into a memory location in stack segment, using Based-Index-addressing mode.
   - Use the given values and displacement=**A3$_H$**, to find the Physical Address of the destination operand.