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**YR. & COURSE**: BSCPE 3 IE

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| **CODES** | **SCREENSHOTS** |
| mov ax, 12434H  mov bx, 0xABCD  add ax, bx |  |
| mov ax, 1234H  mov bx, 0xABCD  sub ax, bx |  |
| mov ax, 1234H  inc ax |  |
| mov ax, 1234H  dec ax |  |
| mov al, 10h  mov ah, 20h  mul ah |  |
| mov ax, 1234h  mov bx, 5678h  mul bx |  |
| mov al, 21h  mov bl, 7h  div bl |  |
| mov ax, 1000  mov bx, 13  div bx |  |
| stc  mov ax, 1234H  mov bx, 0xABCD  adc ax, bx |  |
| stc  mov ax, 1234H  mov bx, 0xABCD  sbb bx, ax |  |
| mov ax, 1234H  mov bx, 0xABCD  and ax, bx |  |
| mov ax, 1234H  mov bx, 0xABCD  or ax, bx |  |
| mov ax, 1234H  mov bx, 0xABCD  xor ax, bx |  |
| mov ax, 1234H  not ax |  |
| mov ax, 1234H  neg ax |  |
| .model small  .data  hello db 'The sum of the numbers is', 10,13,'$'  num1 db '2345', 10,13,'$'  num2 db '5678', 10,13,'$'  sum db ' ', 10,13,'$'  .code  mov ax,@data  mov ds,ax  main:  mov si,03h  mov cx,05h  clc    add\_loop:  mov al,[num1+si]  adc al,[num2+si]  aaa  pushf  or al,30h  popf  mov [sum+si],al  dec si  loop add\_loop    mov ah,09  mov dx, offset hello  int 21h    mov ah,09  mov dx, offset sum  int 21h | **For adc:**    **For aaa:**    **For pushf:**      **For popf:**    **Final display output:** |