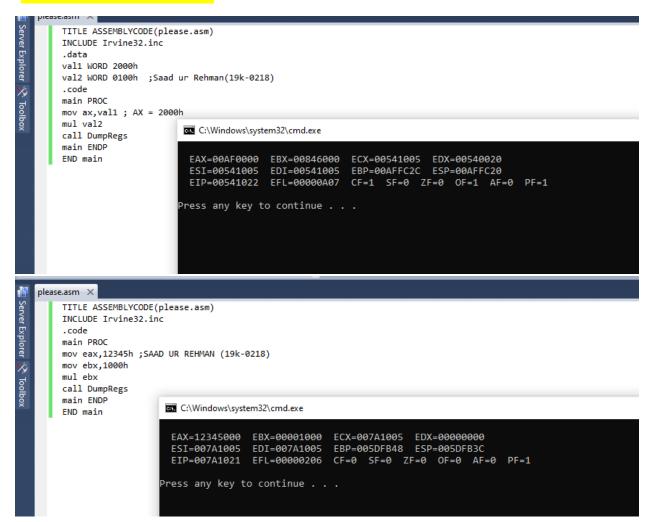
LAB TASK 9

MUL EXAMPLES:



IMUL EXAMPLES:

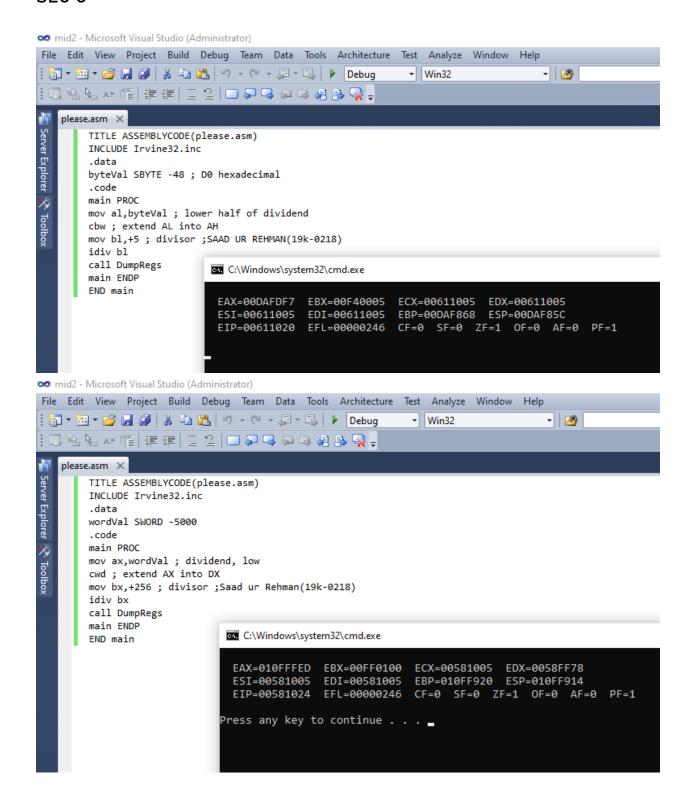
```
olease.asm X
    TITLE ASSEMBLYCODE(please.asm)
    INCLUDE Irvine32.inc
    .data
    word1 SWORD 4
    dword1 SDWORD 4 ;Saad ur REhman(19k-0218)
    .code
    main PROC
    mov ax,-16; AX = -16
                                        C:\Windows\system32\cmd.exe
    mov bx,2; BX = 2
    imul bx,ax; BX = -32
                                         EAX=FFFFFFF0 EBX=FFFFFF00 ECX=00731005 EDX=00731005 ESI=00731005 EDI=00731005 EBP=0083FB0C ESP=0083FB00 EIP=00731044 EFL=00000286 CF=0 SF=1 ZF=0 OF=0 AF=0 PF=1
    imul bx,2 ; BX = -64
    imul bx,word1; BX = -256
    mov eax,-16 ; EAX = -16
    mov ebx,2; EBX = 2
                                       Press any key to continue \dots
    imul ebx,eax ; EBX = -32
    imul ebx,2; EBX = -64
    imul ebx,dword1 ; EBX = -256
    call DumpRegs
    main ENDP
    END main
```

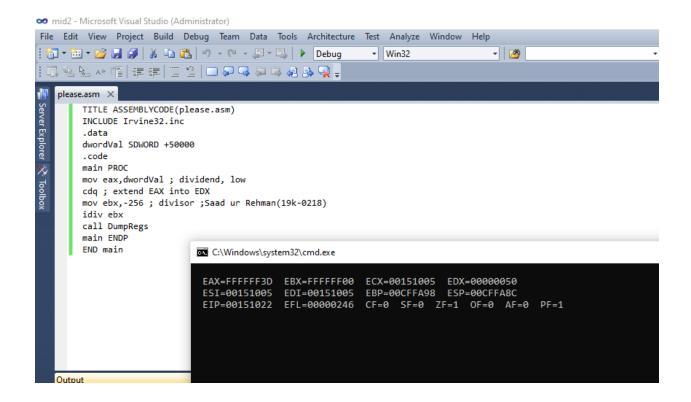
DIV EXAMPLES:

```
ease.asm X
  TITLE ASSEMBLYCODE(please.asm)
  INCLUDE Irvine32.inc
  .data
  word1 SWORD 4
  dword1 SDWORD 4 ;Saad ur Rehman(19k-0218)
  .code
  main PROC
  imul bx,word1,-16 ; BX = -64
                              C:\Windows\system32\cmd.exe
  imul ebx,dword1,-16; EBX = -64
imul ebx,dword1,-2000000000; OF
                                call DumpRegs
                                ESI=00A41005 EDI=00A41005 EBP=0133F954 ESP=0133F948 
EIP=00A4102E EFL=00000A07 CF=1 SF=0 ZF=0 OF=1 AF=0 PF=1
  main ENDP
  END main
  TITLE ASSEMBLYCODE(please.asm)
  INCLUDE Irvine32.inc
  byteVal SBYTE -101; 9Bh
  .code
  main PROC ;Saad ur Rehman(19k-0218)
  mov al,byteVal ; AL = 9Bh
  Cbw
                            C:\Windows\system32\cmd.exe
  call DumpRegs
  main ENDP
                             END main
                             EIP=007D101C EFL=000000246 CF=0 SF=0 ZF=1 OF=0 AF=0 PF=1
```

```
TITLE ASSEMBLYCODE(please.asm)
    INCLUDE Irvine32.inc
    .data
    wordVal SWORD -101 ; FF9Bh
    .code ;Saad ur Rehman(19k-0218)
    main PROC
    mov ax,wordVal; AX = FF9Bh
    cwd
     call DumpRegs
     main ENDP
                         C:\Windows\system32\cmd.exe
    END main
                           EIP=0010101D EFL=00000246 CF=0 SF=0 ZF=1 OF=0 AF=0 PF=1
Output
Show output from: Build
1>----- Build started:
 piéaseiashi A
Server Explorer
        TITLE ASSEMBLYCODE(please.asm)
        INCLUDE Irvine32.inc
        dwordVal SDWORD -101 ; FF9Bh
         .code ;
                    Mohammad Anus(19k-1499)
        main PROC
        mov eax, dwordVal ; AX = FF9Bh
        call DumpRegs
        main ENDP
                             C:\Windows\system32\cmd.exe
        END main
                              EAX=FFFFFFBB EBX=0071D000 ECX=00EE1005 EDX=FFFFFFFF ESI=00EE1005 EDI=00EE1005 EBP=008FFE7C ESP=008FFE70 EIP=00EE101B EFL=00000246 CF=0 SF=0 ZF=1 OF=0 AF=0 PF=1
```

IDIV EXAMPLES:





ADC AND SBB EXAMPLES:

```
TITLE ASSEMBLYCODE(please.asm)
  INCLUDE Irvine32.inc
   .code
  main PROC
  mov dl,0 ;Saad ur Rehman(19k-0218)
  mov al,0FFh
  add al,0FFh ; AL = FEh
  adc dl,0
  call DumpRegs
                             C:\Windows\system32\cmd.exe
  main ENDP
  END main
                              EAX=00CFFAFE EBX=00A4B000 ECX=00FF1005 EDX=00FF1001
                              ESI=00FF1005 EDI=00FF1005 EBP=00CFFA24 ESP=00CFFA18 EIP=00FF101E EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0
on mid2 - Microsoft Visual Studio (Administrator)
                                                               → Win32
                                                                                        - 3
```

