

LAB ASSIGNMENT-I

NAME: S.KOWSHAL

REG NO: 19BCE1396

SUBJECT: MIPS

LAB NO.: I

ADDITION:

Program:

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...

File Edit Search Options

ADD.ASM

CODESEG SEGMENT
ASSUME CS:CODESEG
START:
MOU AL,05H
MOU AL,05H
HLT
CODESEG ENDS
END

ADD.ASM

TO ADD.ASM

TO ADD.ASM

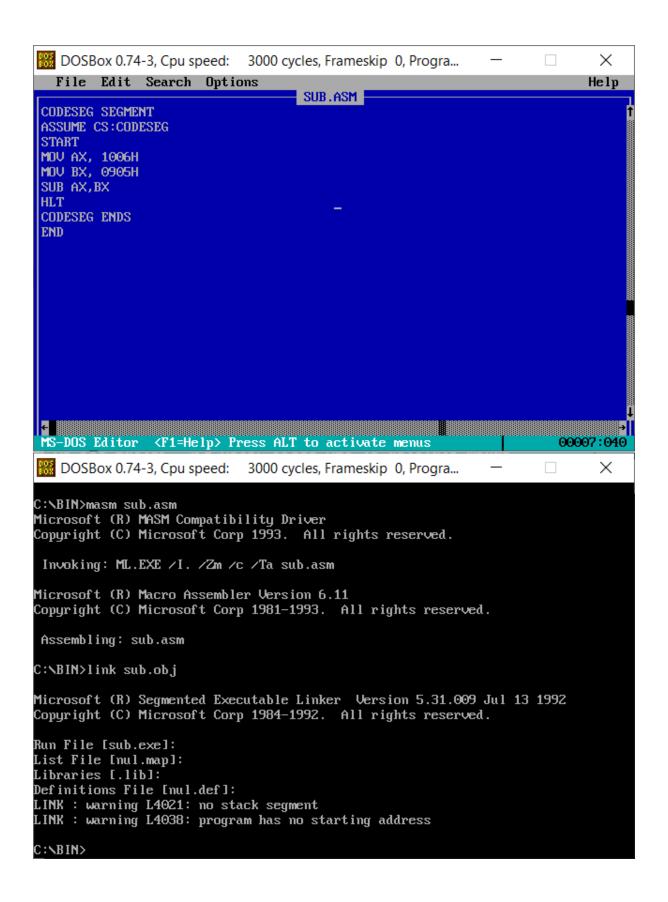
ADD.ASM

N 00001:001
```

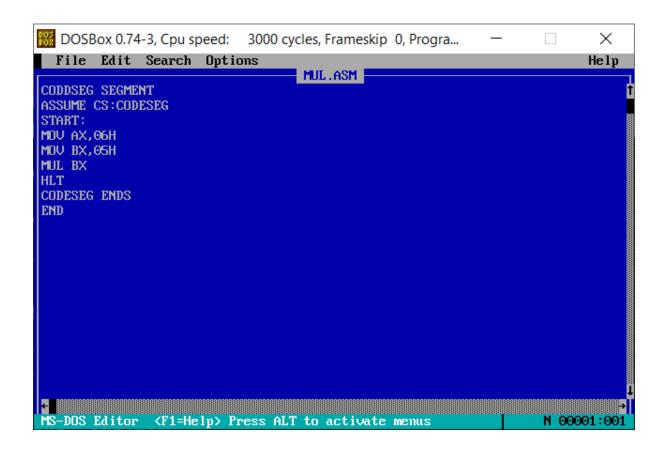
Input:

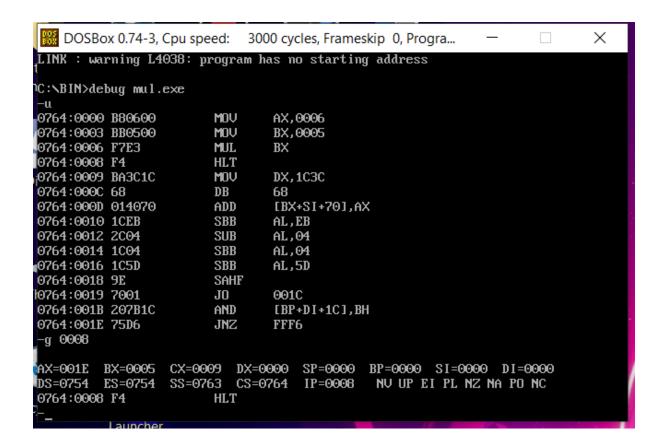
```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...
                                                                            X
Drive C is mounted as local directory c:\masm611\
Z:\>c:
C:N>cd bin
C:\BIN>edit add.asm
C:\BIN>debug add.asm
exit
  ^ Error
 quit
C:\BIN>masm add.asm
Microsoft (R) MASM Compatibility Driver
Copyright (C) Microsoft Corp 1993. All rights reserved.
 Invoking: ML.EXE /I. /Zm /c /Ta add.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
Assembling: add.asm
C:\BIN>
BB DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...
                                                                            Х
C:\BIN>masm add.asm
Microsoft (R) MASM Compatibility Driver
Copyright (C) Microsoft Corp 1993. All rights reserved.
 Invoking: ML.EXE /I. /Zm /c /Ta add.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: add.asm
C:\BIN>link add.obj
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984–1992. All rights reserved.
Run File [add.exel:
List File [nul.map]:
Libraries [.lib]:
Definitions File [nul.def]:
LINK : warning L4021: no stack segment
LINK : warning L4038: program has no starting address
C:\BIN>
```

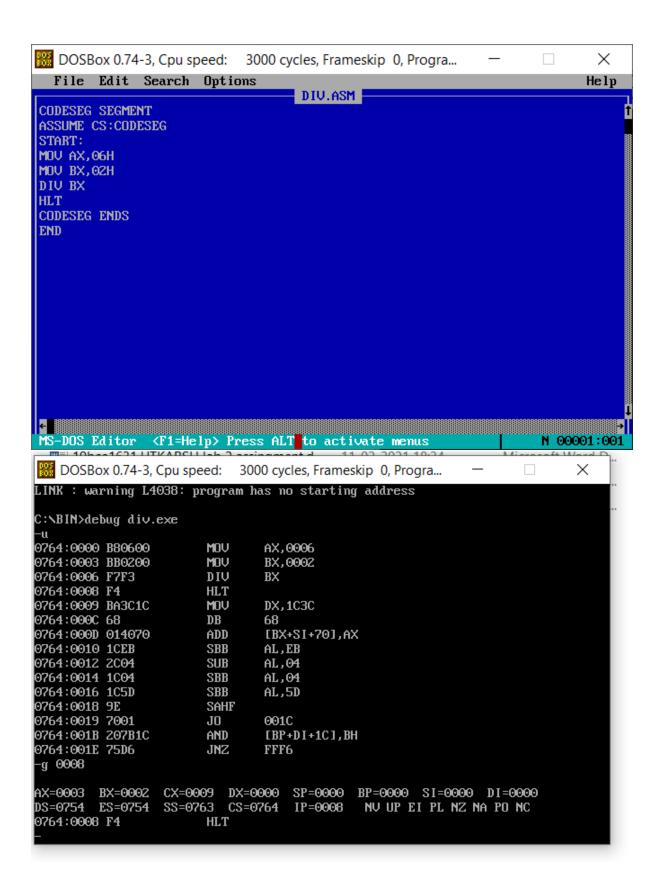
```
LINK : warning L4038: program has no starting address
C:\BIN>DEBUG ADD.EXE
-U
0764:0000 B80610
                           MOV
                                     AX,1006
0764:0003 BB0509
                           MOV
                                     BX,0905
                                     AX,BX
0764:0006 0303
                           ADD
0764:0008 F4
                           HLT
0764:0009 BA3C1C
                          MOV
                                    DX,1C3C
0764:000C 68
                           \mathbf{D}\mathbf{B}
                                     68
0764:000D 014070
                          ADD
                                    [BX+SI+70],AX
0764:0010 1CEB
                                    AL,EB
                           SBB
0764:0012 2004
                           SUB
                                    AL,04
0764:0014 1004
                          SBB
                                     AL,04
0764:0016 1C5D
                          SBB
                                     AL,5D
0764:0018 9E
                           SAHF
0764:0019 7001
0764:001B 207B1C
                           JO
                                     0010
                           AND
                                     [BP+DI+1C],BH
0764:001E 75D6
                           JNZ
                                     FFF6
-G 0008
AX=190B BX=0905 CX=0009 DX=0000 SP=0000 BP=0000 SI=0000 DI=0000
DS=0754 ES=0754 SS=0763 CS=0764 IP=0008 NV UP EI PL NZ NA PO NC
                           HLT
0764:0008 F4
```



BB DOSBox 0.74-3,	Cpu speed: 30	000 cycles, Frameskip 0, Progra —	
C:\BIN>debug sub.exe			
–u			
0764:0000 B80610	MOV	AX,1006	
0764:0003 BB0509	MOV	BX,0905	
0764:0006 ZBC3	SUB	AX,BX	
0764:0008 F4	HLT		
0764:0009 BA3C1C	MOV	DX,1C3C	
0764:000C 68	DB	68	
0764:000D 014070	ADD	[BX+SI+70],AX	
0764:0010 1CEB	SBB	AL,EB	
0764:0012 2004	SUB	AL,04	
0764:0014 1C0 4	SBB	AL,0 1	
0764:0016 1C5D	SBB	AL,5D	
0764:0018 9E	SAHF		
0764:0019 7001	JO	001C	
0764:001B 207B1C	AND	[BP+DI+1C],BH	
0764:001E 75D6	JNZ	FFF6	
−g 0008			
^ Error			
-g 0008			
AX=0701 BX=0905	CX=0009 DX=	:0000 SP=0000 BP=0000 SI=0000 DI=0	9000
DS=0754 ES=0754	SS=0763 CS=	:0764 IP=0008 NV UP EI PL NZ NA PO	NC
0764:0008 F4 -	HLT		







Output:

Result: