# Computer Organization & Assembly Language

Lab-3

# Assembly Program to take input from user and print on screen (write a code using DosBox Edit) and save as **abc.asm**

dosseg; dos segment

mov ah,4ch

.model small

INT 21hMain endp

.stack 100h

**End Main** 

.data

.code

Main proc

Mov ah,1

INT 21h

Mov dl,al

mov ah,2

- Edit Filename.asm (to create new file if not exists/open existing file)
- MASM Filename.asm; (to convert into object file using MASM assembler)
- LINK Filename.obj; (to convert object file into execution file using linker)
- To execute the exe file you just created,
  - Filename.exe (it will execute)

## Assembly Program to add two numbers (write a code using DosBox Edit) and save as <u>abc.asm</u>

dosseg; dos segment

mov ah,4ch

.model small

INT 21h

.stack 100h

Main endp

.data

**End Main** 

.code

Main proc

Mov bl,1

Mov cl,2

Add bl,cl

Add bl,48

Mov dl,bl

Mov ah,2

- Edit Filename.asm (to create new file if not exists/open existing file)
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## Assembly Program to Subtract two numbers (write a code using DosBox Edit) and save as <u>abc.asm</u>

dosseg ;dos segment mov

mov ah,4ch

.model small

INT 21h

.stack 100h

Main endp

.data

**End Main** 

.code

Main proc

Mov bl,3

Mov cl,1

sub bl,cl

Add bl,48

Mov dl,bl

Mov ah,2

- Edit Filename.asm (to create new file if not exists/open existing file)
- MASM Filename.asm; (to convert into object file using MASM assembler)
- LINK Filename.obj; (to convert object file into execution file using linker)
- To execute the exe file you just created,
  - Filename.exe (it will execute)

### Assembly Program to to input two numbers and add them (write a code using DosBox Edit) and save as <u>abc.asm</u>

dosseg ;dos segment

mov dl,bl

.model small

mov ah,2

.stack 100h

INT 21h

.data

.code

mov ah,4ch

Main proc

INT 21h

Mov ah,1

Main endp

INT 21h

**End Main** 

mov bl,al

mov al,1

INT 21h

add bl,al

sub bl,48

- Edit Filename.asm (to create new file if not exists/open existing file)
- MASM Filename.asm; (to convert into object file using MASM assembler)
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  - Filename.exe (it will execute)

### Assembly Program to convert Capital letter into small letter (write a code using DosBox Edit) and save as <u>abc.asm</u>

dosseg ;dos segment mov ah,4ch

.model small INT 21h

.stack 100h Main endp

.data End Main

.code

Main proc

Mov ah,1

INT 21h

Mov dl,al

add dl,32

Mov ah,2

- Edit Filename.asm (to create new file if not exists/open existing file)
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- LINK Filename.obj; (to convert object file into execution file using linker)
- To execute the exe file you just created,
  - Filename.exe (it will execute)