**LAB 01**

**Program to print A:**

dosseg

.model small

.code

main Proc

mov dl, 65

mov ah, 2

int 21h

mov ah, 4ch

int 21h

main endp

end main

**LAB 02**

**Program to take input:**

dosseg

.model small

.code

main Proc

mov ah, 1

int 21h

mov ah,4ch

int 21h

main endp

end main

**Program to do addition:**

dosseg

.model small

.code

main Proc

mov al, 2

mov bl, 3

add al, bl

mov dl , al

mov ah, 2

add dl ,48

int 21h

mov ah, 4ch

int 21h

main endp

end main

**LAB 03**

**Program to take input two numbers and show their sum:**

dosseg

.model small

.data

s1 db “number1 = $”

s2 db “number2 = $”

s3 db “sum = $”

.code

main Proc

mov ax, @data

mov ds, ax

mov ah, 9

lea dx, number1

int 21h

mov ah,1

int21h

mov bl, al

mov ah,9

lea dx, number2

int 21h

mov ah, 1

int 21h

mov bh, al

mov ah, 9

lea dx, sum

int 21h

mov ah, 2

mov dl, bl

add dl, bh

sub al , 48

int 21h

mov ah, 4ch

int 21h

main endp

end main

**LAB 04**

**Program to find the remainder and quotient on a number in 8 bit:**

dosseg

.model small

.data

Q db 0

R db 0

.code

main Proc

mov al,6

mov bl, 2

div bl

mov Q, al

mov R, ah

mov ah, 2

mov dl, Q

int 21h

mov ah,2

mov al, R

int 21h

main endp

end main

**Program to find the remainder and quotient on a number in 16 bit:**

dosseg

.model small

.data

Q dw 0

R dw 0

.code

main Proc

mov ax,12

mov bx, 10

div bx

mov Q, ax

mov R, dx

mov ah, 2

mov dx, Q

int 21h

mov ah,2

mov dx, R

int 21h

main endp

end main