

LAB PROGRAM-4

* model small

display macro msg

lea dx, msg

mov ah, 09h

int 21h

endm

.data

msg1 db 0dh, 0ah, "enter a string : - \$"

msg2 db 0dh, 0ah, "enter string is
Palindrome \$"

msg3 db 0dh, 0ah, "entered string is not a palindrome \$"

str db 10h dup(0)

revstr db 10h dup(0)

len dw 0

.code

mov ax, @data

mov ds, ax

display msg,

mov si, 00h

back1: mov ah, 01h ; malayalam ->

input string where length = 9

int 21h

Cmp al; 0dh

JZ next

mov str[si], al

inc si

inc len

jmp back

next: mov si, 00h

mov di, 00h

add di, len ; $di = 00 + 09 = 09$

dec di ; $di = 8$ (string of length 9 means index
from 0 to 8)

mov cx, len ; $cx = 9$

back2: mov al; str[si]; al ---

str[00] = value 'm'

mov revstr[di]; revstr[8] = value 'm'

inc si

dec di

loop back2

mov cx, len; $cx = 9$

mov si, 00h

mov di, 00h

cld

back3: mov bl, str[si]

cmp bl, revstr[di]

Jnz notpal

loop back3

display msg2

jmp last

not pali : display msg 3

last : mov ah, 6ch

int 21h

end.