

Macro

*model small

*Code

mov AH,2

mov DL,66

rept 5

int 33

endm

mov AH,76

int 33

end

o/p BBBBBB

1. BBBBBBaaaaa

2. BCDEF(ada)

3. BaBaBaBa

mov AH,2

t=5

rept 3

mov DL,t+65

rept t

int 33

endm

t=t-1

mov DL,t

int 33

endm

mov DL,t

int 33

endm

mov AH,76

int 33

o/p FFFFFF,EEEE,DD;

4. ABCD,ABCD,ABCD

5. F,EE,DDD,CCCC

6. ABC,AB,A

BCD,BC,B

abc macro x
if x eq BL
mov dl,65
else
mov dl,66
endif
endm
.model small
.code
Mov AH,2
abc BL
int 33
abc CL
int 33
Mov AH,76
int 33
END
Register name
as parameter
o/p AB

aa macro x
x dl,bl
endm
.model small
.code
Mov ah,2
Mov bl,30
aa mov
aa add
aa add
int 33
Mov AH,76
int 33
END
Instruction
name as
parameter
o/p Z

abc macro x
Mov dl,65+x
int 33
int 33
endm
pqr macro x
Mov dl,66
int 33
endm
ttt macro x
x 5
endm
.model small
.code
Mov AH,2
ttt abc
ttt pqr
Mov AH,76
int 33
END
Macro name
can be
parameter
o/p FFB

.model small
.code
Mov AH,2
Mov DL,0
n=65
jmp LI
n=n+1
Add DL,5
LI:
Add DL,n
int 33
Mov AH,76
int 33
End
o/p B
Macro
expansion
and
execution
are different
phases
o/pB (notA)

abc macro
local n
n=70
Mov DL,n+3
int 21h
n=80
endm
.model small
.code
n=65
Mov AH,2
abc
Mov DL,n
int 33
Mov AH,76
int 33
END
o/pIA
IP(n not local)

abc macro n
Mov DL,n
endm
.model small
.code
Mov AH,2
Mov CL,90
abc CL
int 33
Mov DL,CL
Mov DL,90
Mov DL,cs:[9]
int 33
Mov DL,cs:[11]
int 33
Mov DL,cs:[5]
int 33
Mov AH,76
int 33
End
o/pZ(209)Z(209)
abc CL is
Mov DL,CL
not Mov DL,90

.model small
.code
m=50
t=65
if m gt t
Mov CL,kk
t=t+1
else
Mov DL,t
endif
Mov AH,2
int 33
Mov AH,76
int 33
End
The above
program does
not show error
because of Mov
CL,kk but the
next program
shows.
o/pA

.model small
.code
Mov BL,50
t=65
Cmp BL,t
JNG L
Mov CL,kk
t=t+1
Jmp M
L: Mov DL,t
M: Mov AH,2
int 33
Mov AH,76
int 33
END
Replace ~~kk~~ by
12 chB
because
macro
expansion is
done first

ttt macro k
Mov DL,k
int 33
int 33
endm
ppp macro t
local ttt
ttt macro k
Mov dl,k+1
int 33
endm
ttt 66
endm
.model small
.code
Mov Ah,2
ttt 65
ppp 6
ttt 65
Mov AH,76
int 33
end
o/pAAHAA
AAHG (No Local)

ttt macro
Mov DL,65
int 33
endm
ppp macro
Mov DL,66
int 33
endm
abc macro
local ttt
ttt macro
ppp macro
Mov DL,67
int 33
endm
Mov DL,97
int 33
endm
ttt
Mov DL,90
int 33
endm

.model small
.code
Mov AH,2
ttt
ppp
abc
ppp
ttt
Mov AH,76
int 33
END
ABaZCAC
ttt → ppp
ABBZBAβ
no local
ABaZCaC
ttt → ppp
ABBZBaC

mov reg1,reg2 10001010 11reg,reg2 CL:001 DL:010 Mov reg,number 10110reg number

Replace 9,11,5 by 8,10,4 respectively output is 2(138)(178)(138)

In following NO Jump of any type use Rept Mov Int Sub add ade

7. Read 5 letters How many are less than 100 Da hkb → 2 8. No Adc (use CBW)

9. Read a letter ascii mod 7 [CBW NOT AND] A → 2 10. ascii div 7 A → 9 CBW

11. Read 2 digits output product 98 → 14 95 → - [CBW And]

12. Read a digit x o/p 1+2+3+...+X+50 2 → 5 6 → 6