

① Title: Sample programs using 8086 microprocessors

② Components used: emu8086

③ WAP to display 'Hello world'

- ⇒
- model small
  - stack 100h
  - data

string db 'Hello world'

• code

main proc

• startup

MOV DX, OFFSET string

MOV AH, 09H

INT 21h

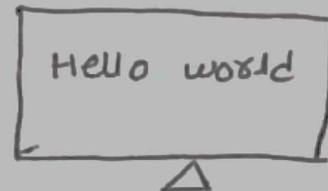
• exit

main endp

end main

Output:

Hello world



④ WAP to find the sum of two immediate numbers.

- ⇒
- model small
  - stack 100h
  - data

num1 db 85H

num2 db 55H

sum db ?

• code

main proc

• startup

MOV BL, num1

ADD BL, num2

MOV sum, BL

MOV AX, 4C00h

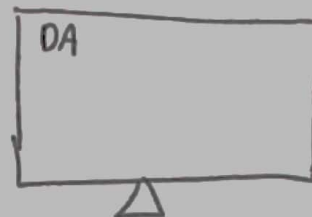
INT 21h

main endp

end main

Output:

DA



\*) WAP to display an english Alphabet from A to Z

⇒ • model small

• stack 100h

• data

alpha db 'A'

• code

main proc

• startup

mov cx, 1Ah

mov bl, alpha

again: mov dl, bl

mov ah, 02h

int 21h

inc bl

loop again

• exit

main endp

end main

output :

ABCDEFGHIJKLMNOPQRSTUVWXYZ



\*) WAP to display numbers from 0 to 9

⇒ • model small

• stack 100h

• data

num db 0

• code

main proc

~~main~~ • startup

mov cx, 10

mov bl, num

again: mov dl, bl

mov ah, 02h

int 21h

inc bl

loop again

• exit

main endp

end main

output:

0123456789



~~Conclusion~~ : In this way we understood the above program by using  
emu8085 in computer.