## Task-1

## .MODEL SMALL

.STACK 100H

.DATA

a1 dw 90

a2 dw 90

a3 dw 90

a4 dw 90

s1 dw 5

s2 dw 6

s3 dw 5

s4 dw 6

msg1 db 'valid rectangle\$' msg2 db 'invalid rectangle\$'

.CODE MAIN PROC

;iniitialize DS

MOV AX,@DATA MOV DS,AX

; enter your code here

mov ax, a1

cmp ax, a2

jne not\_r

cmp ax, a3

jne not\_r

cmp ax, a4

jne not\_r

mov ax, s1

cmp ax, s3

jne not\_r

mov ax, s2 cmp ax, s4 jne not\_r

mov ah, 9 lea dx, msg1 int 21h

jmp exit

not\_r: mov ah, 9 lea dx, msg2 int 21h jne exit

exit:

;exit to DOS

MOV AX,4C00H INT 21H

MAIN ENDP END MAIN

## Task-2

.MODEL SMALL

```
.STACK 100H
.DATA
NUM db "input last digit of your id $"
sum db?
FIRST DB?
count db 3
.CODE
MAIN PROC
 MOV AX, @DATA
 MOV DS, AX
 LEA DX, NUM
 MOV AH,9
 INT 21H
 MOV AH,1
 INT 21H
 MOV FIRST, AL
 MOV DL, 0AH
 MOV AH,2
 INT 21H
        ; NEW LINE PRINT
 MOV DL, 0DH
 MOV AH,2
 INT 21H
```

sub first,30h

## looping: cmp count, 8h je exit mov ah,0 mov al,count mov bl, 2 div bl cmp ah,1h je odd add first,4h mov bl,first sub sum,bl jmp ending odd: add first,4h mov bl,first add sum,bl ending: add count,1h jmp looping exit: mov dl,sum mov ah,2 ;print int 21h

MAIN ENDP END MAIN