**QUES 01 :**

.MODEL SMALL

.STACK 100H

.DATA

; DEFINE YOUR VARIABLES HERE

a db "Enter two digit number$"

b db "even$"

c db "No triangle$"

var db 1

var1 db ' $'

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

;test1

LEA DX,A

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV BH,AL

MOV AH,1

INT 21H

SUB AL,30H

MOV CH,AL

MOV AL,BH

MOV BL,10

MUL BL

ADD AL,CH

MOV CX,AX

MOV AH,2 ;newLine

MOV DL,0DH

INT 21H

MOV DL,0AH

INT 21H

;check

mov al,bh

mov ah,0

mov cl,2

div cl

cmp ah,0

je prn

jmp ext

prn:

;test1End

; YOUR CODE STARTS HERE

mov bx,1

mov cx,5

loop1: ;whole travreses

push cx

mov ah,2

mov dl,32

loop2: ;spaces

int 21h

loop loop2

mov cx,bx

mov dl,var

add dl,48

loop3: ;star

;

cmp dl,20h

je lo

;

int 21h

lo:

add var,1

mov dl,var

add dl,48

;test

cmp cx,3

je remove2

jmp check4

remove2:

cmp var,2

je rem2

cmp var,3

je remm3

jmp check4

rem2:

mov dl,20h

int 21h

;cmp cx,4

check4:

cmp cx,4

je removee2

jmp go

removee2:

cmp var,2

je remm2

jmp go

remm2:

mov dl,20h

int 21h

remm3:

cmp var,3

je rem3

jmp go

rem3:

mov dl,20h

int 21h

go:

;testEnd

loop loop3

mov ah,2 ;newLine

mov dl,10

int 21h

mov dl,13

int 21h

inc bx

pop cx

inc dl

mov var,1

loop loop1

;test2

jmp exit

ext:

LEA DX,c

MOV AH,9

INT 21h

exit:

;test2End

; YOUR CODE ENDS HERE

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN