.model small

.stack 100h

.data

msgMM db 10,' Welcome To Menu Page, Pls Choose a Number to Display Shape'

db 10,'1 : Left side triangle pattern '

db 10,'2 : Square pattern '

db 10,'3 : Ice cream pattern '

db 10,'4 : Triangle pattern '

db 10,'5 : Diamond pattern '

db 10,'6 : Exit'

db 10,'Enter your choice :$'

msgerror db 10,'Sorry are you insert a Invalid input? PLS ENTER AGAIN!$'

msgbye db 10,'Bye Bye, see you next time $'

Value db ?

SPACE db ?

.code

main proc

MOV ax,@data

MOV ds,ax

Begin:

MOV ah,9

LEA dx,msgMM

int 21h

MOV ah,1

int 21h

CMP al,'7'

jge fail

CMP al,'1'

jb fail

CMP al,'1'

je Shape1

CMP al,'2'

je Shape2

jmp Nextinput1

fail:

mov ah,9

lea dx,msgerror

int 21h

mov ah,2

mov dl,10

int 21h

jmp begin

Shape1:

mov ah,2

mov dl,10

int 21h

mov bx,1

mov cx,8

LeftsidetriangleLoop:

Push Cx

mov ah,2

int 21h

mov cl,al

sub cl,48

mov dl,13

mov ah,2

int 21h

Mov Cx,Bx

Leftsidetriangle2Loop:

mov dx,bx

add dx,48

mov ah,2

int 21h

loop Leftsidetriangle2Loop

mov dl,10

mov ah,2

int 21h

mov dl,13

mov ah,2

Int 21h

mov dl,13

mov ah,2

Int 21h

inc bl

pop cx

loop LeftsidetriangleLoop

jmp begin

shape2:

Mov ah,2

MOV DL,10

INT 21H

MOV DL,10

INT 21H

MOV CX,6

MOV BX,4

squarefirstloop:

PUSH CX

MOV CX,10

squaresecondloop:

MOV AH,2

MOV DL,'#'

INT 21H

MOV DL,32

INT 21H

LOOP squaresecondloop

MOV AH,2

MOV DL,10

INT 21H

MOV DL,13

INT 21H

POP CX

LOOP squarefirstloop

jmp begin

Nextinput1:

CMP al,'3'

je Shape3

jmp Nextinput2

shape3:

mov ah,2

MOV DL,10

INT 21H

MOV DL,10

INT 21H

MOV CX,5

MOV BX,1

aboveicecreamL1:

PUSH CX

aboveicecreamL2:

MOV AH,2

MOV DL,32

INT 21H

LOOP aboveicecreamL2

MOV CX,BX

aboveicecreamL3:

MOV AH,2

MOV DL,'^'

INT 21H

LOOP aboveicecreamL3

MOV AH,2

MOV DL,10

INT 21H

MOV DL,13

INT 21H

INC BX

INC BX

POP CX

LOOP aboveicecreamL1

MOV CX,4

MOV BH,7

MOV BL,2

MOV Value,BH

MOV SPACE,BL

aboveicecreamL4:

CMP SPACE,0

JE belowicecreamL5

MOV AH,2

MOV DL,32

INT 21H

DEC SPACE

JMP aboveicecreamL4

belowicecreamL5:

MOV AH,2

MOV DL,'V'

INT 21H

DEC Value

CMP Value,0

JNE belowicecreamL5

belowicecreamL6:

MOV AH,2

mov dl,10

MOV DL,10

INT 21H

MOV DL,13

INT 21H

DEC BH

DEC BH

MOV Value,BH

INC BL

MOV SPACE,BL

LOOP aboveicecreamL4

jmp begin

Nextinput2:

cmp al,'4'

je shape4

cmp al,'5'

je shape5

jmp lastinput

shape4:

Mov ah,2

MOV DL,10

INT 21H

MOV BX,1

MOV CX,7

trianglefirstloop:

PUSH CX

MOV AH,2

int 21h

MOV DL,32

trianglesecondloop:

INT 21H

LOOP trianglesecondloop

MOV CX,BX

MOV DL,46

trianglethirdloop:

INT 21H

LOOP trianglethirdloop

MOV AH,2

MOV DL,10

INT 21H

MOV DL,13

INT 21H

INC BX

INC BX

POP CX

LOOP trianglefirstloop

jmp begin

Shape5:

Mov ah,2

MOV DL,10

INT 21H

MOV DL,10

int 21h

MOV CX,5

MOV BX,1

aboveL1:

PUSH CX

aboveL2:

MOV AH,2

MOV DL,32

INT 21H

LOOP aboveL2

MOV CX,BX

aboveL3:

MOV AH,2

MOV DL,'!'

INT 21H

LOOP aboveL3

MOV AH,2

MOV DL,10

INT 21H

MOV DL,13

INT 21H

INC BX

INC BX

POP CX

LOOP aboveL1

MOV CX,4

MOV BH,7

MOV BL,2

MOV Value,BH

MOV SPACE,BL

aboveL4:

CMP SPACE,0

JE belowL5

MOV AH,2

MOV DL,32

INT 21H

DEC SPACE

JMP aboveL4

belowL5:

MOV AH,2

MOV DL,'!'

INT 21H

DEC Value

CMP Value,0

JNE belowL5

belowL6:

MOV AH,2

MOV DL,10

INT 21H

MOV DL,13

INT 21H

DEC BH

DEC BH

MOV Value,BH

INC BL

MOV SPACE,BL

LOOP aboveL4

jmp begin

lastinput:

cmp al,'6'

je exitprogram

Jmp begin

exitprogram:

mov ah,9

lea dx,msgbye

int 21h

mov ah,4ch

int 21h

main endp

end main