

```

.model small

.stack 100h

.data
    newline db 0dh, 0ah, '$'

.code

main proc

    mov ax, @data
    mov ds, ax


    mov cx, 5      ; outer loop counter for rows
    mov bx, 1      ; starting number to print


outer_loop:
    push cx

    mov cx, bx     ; inner loop counter for printing numbers
inner_loop:
    push cx        ; save inner loop counter

    mov dl, bl     ; move number to dl
    call print_number ; call procedure to print number

    pop cx

    loop inner_loop ; repeat inner loop


    lea dx, newline ; print newline
    mov ah, 09h     ; function to print string
    int 21h

```

```
pop cx      ; restore outer loop counter
inc bx      ; increment number to print
loop outer_loop ; repeat outer loop
```

```
mov ah, 4ch
int 21h
main endp
```

```
; Function to print number
```

```
print_number proc
    add dl, '0'    ; convert number to ASCII
    mov ah, 02h    ; function to print character
    int 21h
    ret
print_number endp
end main
```