

Name

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Section

SE3-1

LAB

#6

Task 1

```
.model small
```

```
.stack 100h
```

```
.data
```

```
    msg_even db 'The number is EVEN.$'
```

```
    msg_odd  db 'The number is ODD.$'
```

```
    input db ?
```

```
.code
```

```
main:
```

```
    mov ax, @data
```

```
    mov ds, ax
```

```
    mov ah, 1
```

```
    int 21h
```

```
    sub al, 30h
```

mov input, al

; Check if even or odd

mov al, input

and al, 1

jz EVEN

ODD:

mov ah, 9

lea dx, msg_odd

int 21h

jmp EXIT

EVEN:

mov ah, 9

lea dx, msg_even

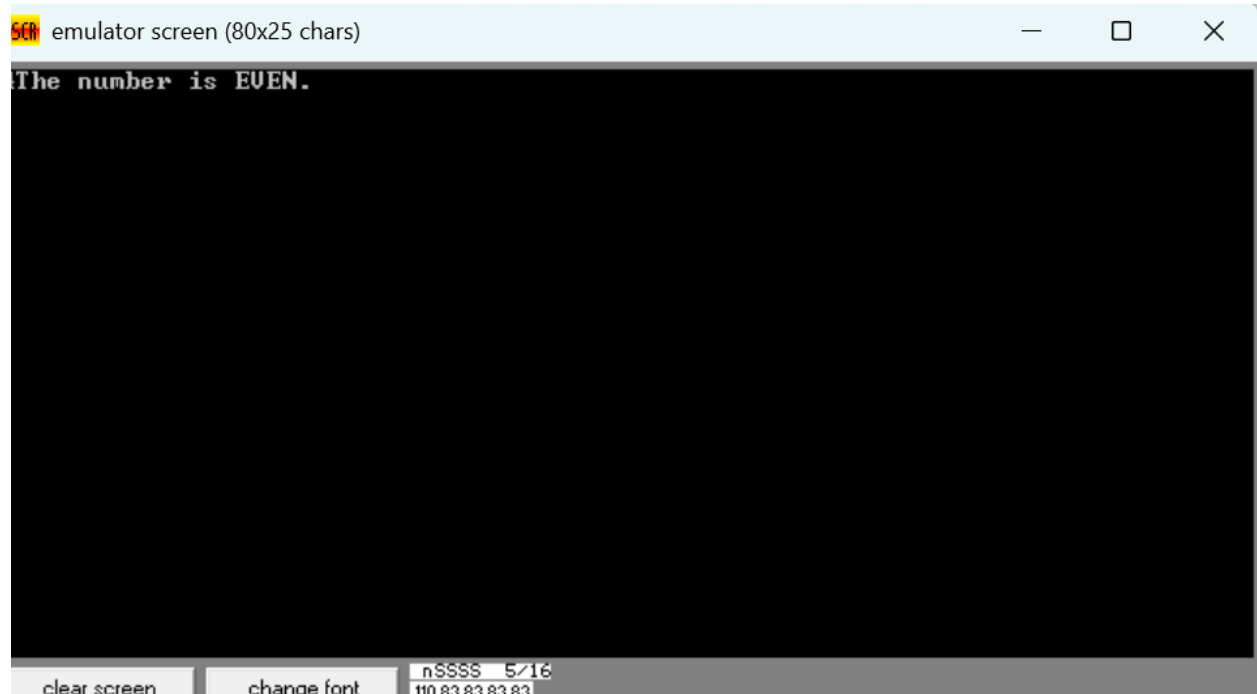
int 21h

EXIT:

mov ah, 4ch

int 21h

end main



Task 2

```
.model small
```

```
.stack 100h
```

```
.data
```

```
    fib db 5 dup(?)
```

```
    newline db 13, 10, '$'
```

```
.code
```

```
main:
```

```
    mov ax, @data
```

mov ds, ax

mov al, 0

mov [fib], al

mov al, 1

mov [fib+1], al

mov cx, 3

mov si, offset fib

add si, 1

fibo_loop:

mov al, [si]

mov bl, [si-1]

add al, bl

mov [si+1], al

inc si

loop fibo_loop

lea si, fib

mov cx, 5

print_loop:

mov al, [si]

add al, 30h

mov dl, al

mov ah, 02h

int 21h

mov dl, 13

mov ah, 02h

int 21h

mov dl, 10

mov ah, 02h

int 21h

inc si

loop print_loop

mov ah, 4Ch

int 21h

end main

