Today's Task - 1: Write a program to reverse the characters

Input: ABCDEF

Output: FEDCBA

.MODEL SMALL

.STACK 100H

.DATA

STRING DB 'ABCDE', '$'

.CODE

MAIN PROC FAR

MOV AX,@DATA

MOV DS,AX

CALL REVERSE

LEA DX,STRING

MOV AH, 09H

INT 21H

MOV AH, 4CH

INT 21H

MAIN ENDP

REVERSE PROC

MOV SI, OFFSET STRING

MOV CX, 0H

LOOP1:

MOV AX, [SI]

CMP AL, '$'

JE LABEL1

PUSH [SI]

INC SI

INC CX

JMP LOOP1

LABEL1:

MOV SI, OFFSET STRING

LOOP2:

CMP CX,0

JE EXIT

POP DX

XOR DH, DH

MOV [SI], DX

INC SI

DEC CX

JMP LOOP2

EXIT:

MOV [SI],'$ '

RET

REVERSE ENDP

END MAIN

