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; Task  :Introduction to Assembly Programming
; Date  :29 Aug 2000
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; File  :Ex.asm
; To compile
;       TASM Ex.asm;
;       TLINK /t Ex
; To run is simply
;       Ex
;-----
.MODEL SMALL
CommonSeg SEGMENT
          ASSUME CS:CommonSeg,DS:CommonSeg
          ORG 100h

Entry:    jmp Start
;-----
;Data Area:
;-----
;YOUR DATA GO HERE
Message DB "Hello World!", 0Dh, 0Ah, '$' ; Message to be displayed
Count EQU $-Message ; Message length
;-----
;Code Area:
;-----
Start:
    mov AX, CS ; Initialise segment registers
    mov DS, AX ; DS, SS points to the common segment
    mov SS, AX ;

;-----
;YOUR CODE GOES HERE
    mov DX, OFFSET Message; Pass parameter to subroutine
    call DisplayMsg ; Display the message
    mov AH, 0 ; Wait for a key press
    int 16h ; using interrupt 16h function 0
;-----

ExitToDos: ; Exit program
    mov AH,4Ch ; Function 4Ch
    mov AL,0 ; Return code 0
    int 21h ; Interrupt 21h
;-----
;Subroutines used:
;-----
;YOUR SUBROUTINES GO HERE
DisplayMsg PROC NEAR
;Procedure to display an $-terminated string
;Input:
; DX: points to the start of the string
    mov AH, 9h ; Display using function 9h
    int 21h ; Interrupt 21h
    ret ; End of subroutine
DisplayMsg ENDP
;-----
CommonSeg ENDS
END Entry

```