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| **Task-4:** |
| **Code:**  .MODEL small  .STACK 100h  .DATA  msg1 db "Enter a character: $"  msg2 db "Thank you.$"  .CODE  MAIN PROC  mov ax, @DATA  mov ds, ax  ; Display prompt message  mov ah, 09h  lea dx, msg1  int 21h  ; Read a character  mov ah, 01h  int 21h  mov bl, al ; store input character into BL    ;New Line  mov ah,02h  mov dx,0Ah  int 21h  mov dx,0Dh  int 21h  ; Set CX = 50 for loop  mov cx, 50  print\_loop:  mov ah, 02h  mov dl, bl ; load character into DL  int 21h  loop print\_loop    ;New Line  mov ah,02h  mov dx,0Ah  int 21h  mov dx,0Dh  int 21h  ; Print Thank you  mov ah, 09h  lea dx, msg2  int 21h  ; Exit program  End:  mov ah, 4Ch  int 21h  MAIN ENDP  END MAIN |
| **Output:** |

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| **Task-5:** |
| **Code:**  .MODEL small  .STACK 100h  .DATA  msg1 db "Enter characters: $"  msg2 db "Thank you.$"  .CODE  MAIN PROC  mov ax, @DATA  mov ds, ax  mov ah, 09h  lea dx, msg1  int 21h  mov ah, 01h  int 21h  mov bl, al  mov ah, 01h  int 21h  mov bh, al  mov ah, 02h  mov dl, 0Dh  int 21h  mov dl, 0Ah  int 21h    cmp bl, bh  jg swap\_letters    swap\_letters:  xchg bl, bh  jmp print\_letters  print\_letters:  mov ah, 02h  mov dl, bl  int 21h  mov ah, 02h  mov dl, bh  int 21h  mov ah, 02h  mov dl, 0Dh  int 21h  mov dl, 0Ah  int 21h  mov ah, 09h  lea dx, msg2  int 21h  End:  mov ah, 4Ch  int 21h  MAIN ENDP  END MAIN |
| **Output:** |