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; This program has following features.
; It accepts only small letters and spaces from keyboard and capitalizes the
; first alphabetical character of every word and removes spaces between them.
; The input string should have maximum of 70 characters.

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mystack segment stack
    db 256 dup(?)
mystack ends

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```

mydata segment 'data'
    adjust db 20h                ;To capitilize first letter.
    count  db 0                  ;To count the bytes of input string.
    prompt1 db "Enter the text of small alphabatical letters having",13,10,"$"
    prompt2 db "max. 70 characters.Press ENTER when finished: ",13,10,10,"$"
    prompt3 db 13,10,13,10,"Required text is here: ",13,10,13,10,"$"
    stg1    db 70 dup(?)         ;The input string
    stg2    db 70 dup(?)         ;The processed string.
mydata ends

```

```

mycode segment 'code'
    assume cs:mycode,ds:mydata,ss:mystack

```

```

start proc
    mov ax,seg adjust
    mov ds,ax

```

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    mov ah,09h                ;Displayes prompt1 and prompt2 using DOS
    mov dx,offset prompt1     ;function call 09h.
    int 21h
    mov ah,09h
    mov dx,offset prompt2
    int 21h

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    mov si,offset stg1

```

```

P1:
    mov ah,08h
    int 21h
    cmp al,0dh
    je P3
    cmp al,20h
    je P2
    cmp al,"a"
    jb P1
    cmp al,"z"
    ja P1

```

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P2:
    mov ah,06h
    mov dl,al
    int 21h
    mov [si],al
    inc count
    inc si

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        jmp P1

P3:
    mov bx,offset stg1
    mov si,offset stg2
    mov cl,count

again:
    mov al,[bx]
    cmp al,20h
    je inner
    sub al,adjust
    mov adjust,0
    mov [si],al
    inc bx
    inc si
    jmp pos

inner:
    mov adjust,20h
    inc bx

pos:
    loop again

    mov dx,0dh
    mov [si+1],dx
    mov dx,0ah
    mov [si+2],dx

    mov dx,24h
    mov [si+3],dx

    mov ah,09h
    mov dx,offset prompt3
    int 21h
    mov ah,09h
    mov dx,offset stg2
    int 21h

    mov ah,4ch
    int 21h

    ret
start endp
mycode ends
end start

```