

```
; THIS PROGRAM HAS FOLLOWING FEAUTURES.  
; The sting of characters that is given in the data segment it capitalizes the  
; first alphabetical character of every word and removes spaces between them.
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```
mystack segment stack  
    db 256 dup(?)  
mystack ends
```

```
mydata segment 'data'  
    adjust db 20h ;It will capitalize first letter.  
    stg1 db "the supreme guide in life is knowledge"  
    stg2 db 70 dup(?) ;Used for processed string.  
mydata ends
```

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

```
start proc far  
    mov ax,seg adjust ;Segment address of data is stored  
    mov ds,ax ;in ax and is moved in ds.  
  
    mov bx,offset stg1 ;Move offset of stg1 in bx.  
    mov si,offset stg2 ;Move offset of stg2 in si.  
    mov cx,sizeof stg1 ;Total bytes of stg1 is stored in cx.
```

```
again:  
    mov al,[bx] ;This takes a byte from stg1 and  
    cmp al,20h ; if character is space it sets value of  
    je inner ;adjust to 20h to capitalize next letter.  
    sub al,adjust ;Then it takes next byte without moving  
    mov adjust,0 ;space into processed string(stg2).If it  
    mov [si],al ;is not space it sets value of adjust to  
    inc bx ;0h so next byte should remain same.It  
    inc si ;keeps on moving processed characters  
    jmp pos ;into stg2.
```

```
inner:  
    mov adjust,20h  
    inc bx
```

```
pos:  
    loop again  
  
    mov dl,0dh ;This appends the end of processed string  
    mov [si+1],dl ;with a carriage return(0dh),line feed  
    mov dl,0ah ;(0ah) and $ so it can be displayed  
    mov [si+2],dl ;by DOS.  
    mov dl,$  
    mov [si+3],dl  
  
    mov ah,09h ;This displays the processed string  
    mov dx,offset stg2 ;using DOS function call 09h.  
    int 21h
```

```
    mov ah,4ch                ;Terminates the process.
    int 21h

    ret
start endp
mycode ends
end start
```