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I pecon1	: counter	· acm
Lessoni	. counter	.asiii

Description of the task			
Description of the task	Implementation		
The main goal of this lesson to acquaint the structure of the Coassembly program. The program display a message to the screen, and counts the keystroke of "a". The counter starts from	assume CS:Code, DS:Data, SS:Stack		
O, after 9 it displays the proper signs of ASCII table.	lait.	mov	ax, Code
		mov	DS, ax
ntroducing the program:		11101	20, ax
		mov	ax, 03h
Creating a blank, but compilable and executable frame.		int	10h
	isplay:		
We take a message into this frame. This is the classical		mov	ah, 02h
"HELLO WORLD" program. Whit this, the simple string		mov mov	bh, 0 dh, 10
display will be shown with the AH09h, Int21h DOS function.		mov	dl, 0
We have to greate a program loop. This can be achieved		int	10h
We have to create a program loop. This can be achieved with a JMP instruction. We have to ensure the exit from the			
loop to aviod the endless loop. To do so, we must know the		mov	dx, offset message1
AH00h, Int16h function, and we have to write a test		mov int	ah, 09h 21h
condition.		IIIL	2111
00.1011.0111		mov	dx, offset
		;mov	counter ah, 09h
		int	21h
		mov	dx, offset
		;mov	message2 ah, 09h
		int	21h
Inp	put:		
		xor int	ax, ax 16h
		cmp jz	al, 27 End_Program
		cmn	al, "a"
		cmp jz	Count
		jmp	Input
Co	ount:		
		mov	di, offset counter
		mov inc	al, [di] al
		mov	[di], al
		jmp	Input
En	End_Program:		
		mov	ax, 4c00h
		int	21h
me	essage1	:	
	-	db	"The 'a' key was pressed \$"
me	message2:		
		db	" times\$"
COL	ounter:	db	"0\$"
Co	ode	Ends	
	ata ata	Segment Ends	
Qt/	tack	Segment	
	tack	Ends	
			011
		End	Start





















