Password Checking C:\MASM611\BIN>pass segment ENTER YOUR PASSWORD:**************** SORRY, INCORRECT PASSWORD! C:\MASM611\BIN>pass password db 'mpmclab' len equ (\$-password) rmsg1 db 10,13, 'enter your password:\$' enter your password:*** GOOD, CORRECT PASSWORD !! cmsg2 db 10,13, 'good, correct password !!\$' icmsg3 db 10,13,'sorry, incorrect password!\$' **RAM Size** new db 10.13.'\$' cr equ 0dh inst db 10 dup(0) lf equ 0ah data ends data segment code segment table db '0123456789abcdef' assume cs:code, ds:data message db ' this program is used to find the mov ax, data start: size of the ram memory in kbytes' mov ds, ax db ' memory size is returned in ax register' lea dx, rmsg1 mov ah, 09h db cr,lf, '\$' memorysize dw? int 21h displaysize db ' the ram memory size is:' mov si, 00h asciisize db 4 dup(?) back1: mov ah, 08h db cr,lf,'\$' int 21h data ends cmp al, 0dh code segment je skip1 assume cs:code, ds:data mov [inst+si], al start: mov ax, data mov dl, '*' mov ds,ax mov ah, 02h mov ah,09h int 21h lea dx,message inc si int 21h jmp back 1 mov ah,088h skip1: mov bx, 00h int 15h mov cx, len check: mov al, [inst+bx] mov memorysize, ax lea si, asciisize mov dl, [password+bx] add si,3 cmp al, dl lea bx, table ine fail mov ax, memorysize inc bx and ax,0000fh loop check xlat lea dx, cmsg2 mov [si],al mov ah, 09h int 21h dec si mov ax, memorysize imp finish fail: and ax,000f0h lea dx, icmsg3 mov cl,04h mov ah, 09h shr ax,cl int 21h xlat finish: mov ah, 4ch mov [si],al int 21h dec si ends code mov ax, memorysize end start and ax,00f00h end mov cl,08h shr ax,cl

xlat

mov [si dec si mov ax and ax,0 mov cl, shr ax,0 xlat	, memorysize 0f000h 0ch	aam mov call mov int 2	bx, ax disp ah, 2ah
mov [si],al		mov al, cl	
mov ah,09h		aam	
lea dx, displaysize		mov bx, ax	
int 21h		call disp	
quit: mov al,0		mov ah, 4ch	
mov ah,04ch		int 21h	
int 21h			
code ends		disp proc	
end start		mov dl, bh add dl, 30h	
C:\MASM611\BIN\ramsize This program is used to find the size of the ram memory in kbytes memory size i s returned in ax register The ram memory size is:0000		mov ah, 02h int 21h	
		mov dl, bl	
		add dl, 30h	
			/ ah, 02h
System Date		int 2	-
~ J 50011	.model small	ret	
	.data	disp	endp
	.code	end	start
start:	mov ax, @data		
	mov ds, ax	C:\MASM611\	BIN>date
		18/09/2019	220
date:	mov ah, 2ah		
	int 21h		
	mov al, dl	System Ti	me
	aam		.MODEL SMALL
	mov bx, ax call disp		.DATA
	mov dl,'/'		.CODE
	mov ah, 02h	START:	MOV AX, @DATA
	int 21h	JIOUD DAI	MOV DS, AX
		;HOUR PAI HOUR:	MOV AH, 2CH
month:	mov ah, 2ah	поок.	INT 21H
	int 21h		MOV AL, CH
	mov al, dh		AAM
	aam		MOV BX, AX
	mov bx, ax		CALL DISP
	call disp		MOV DL, ':'
	mov dl,'/'		MOV AH, 02H
	mov ah, 02h		INT 21H
	int 21h	;MINUTES PART	
year:	mov ah, 2ah	MINUTES:	· ·
your.	int 21h		INT 21H MOV AL CL
			19/11 19/ 49 1 1 1

MOV AL, CL

AAM INT 21H MOV BX, AX MOV DL,BL **CALL DISP** DL,30H ADD MOV DL, ':' MOV AH,02H MOV AH, 02H INT 21H INT 21H MIN: MOV DL,':' ;SECONDS PART MOV AH,02H SECONDS: INT MOV AH, 2CH 21H INT 21H MOV AL,CL MOV AL, DH AAM AAM MOV BX,AX MOV BX, AX MOV DL,BH **CALL DISP** DL,30H ADD MOV AH, 4CH MOV AH,02H INT 21H INT 21H MOV DL,BL **DISP PROC** ADD DL,30H MOV DL, BH MOV AH,02H ADD DL, 30H INT 21H MOV AH, 02H SEC: MOV DL, ':' INT 21H MOV AH,02H MOV DL, BL INT 21H ADD DL, 30H MOV AL,DH MOV AH, 02H **AAM** INT 21H MOV BX,AX **RET** MOV DL,BH **DISP ENDP** ADD DL,30H AH,02H **END START** MOV INT 21H MOV DL,BL :\MASM611\BIN>time ADD DL,30H 23:10:30 MOV AH,02H INT 21H JMP TOP **Digital Clock** QUIT: MOV AX,04C00H CODE SEGMENT INT 21H ASSUME CS:CODE CODE ENDS MOV AX,00000H START: END START

INT 10H

TOP: MOV AH,02H

MOV BH,00H

MON DILLI

MOV DH,11

MOV DL,14

INT 10H

MOV AH, 02CH

INT 21H

MOV AL,CH

AAM

MOV BX,AX

MOV DL,BH

ADD DL,30H

MOV AH,02H

23:12:4<u>0</u>