

Experiment No. 10: Display a string

Date: 16-10-2020

NAME: Harshini S

REG.NO: 185001058

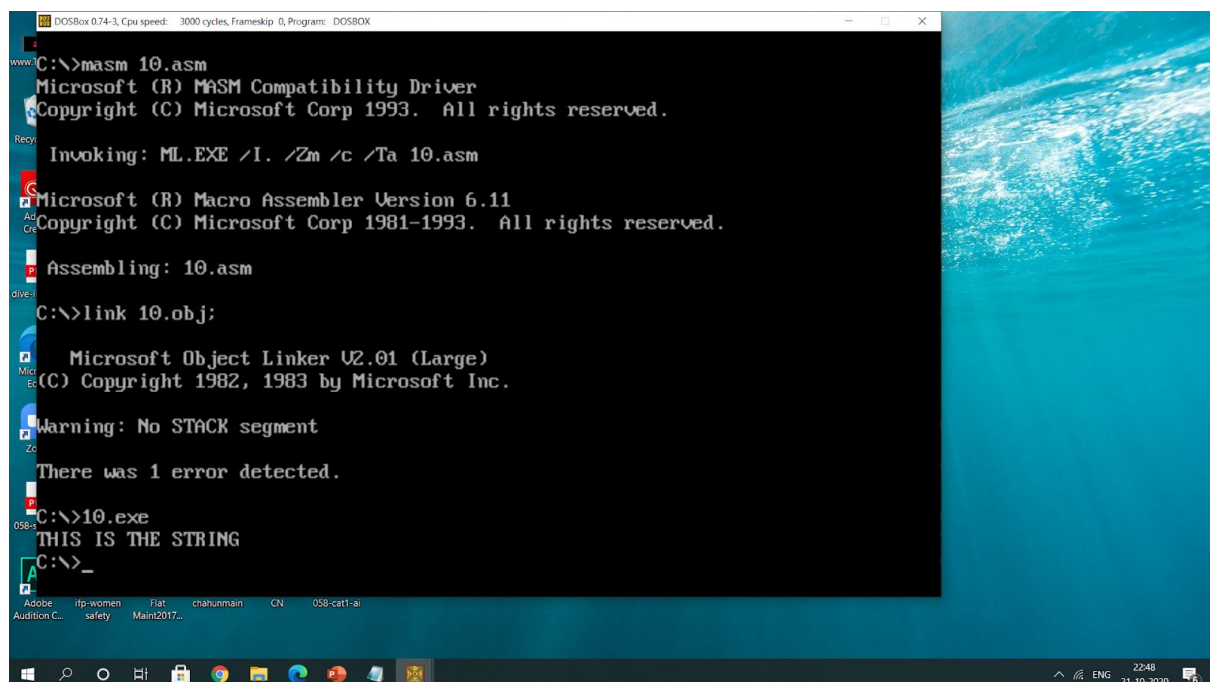
AIM:

Program for displaying a character string in a standard output device.

PROGRAM:

PROGRAM	COMMENTS
START: MOV AX,DATA MOV DS,AX	Transferring address of data segment to ds
MOV AH,9 MOV DX,OFFSET MESSAGE INT 21H	Outputs a string of data terminated by a \$ to the standard output device
MOV Ah,4CH INT 21H	Terminate the program

SAMPLE INPUT/OUTPUT:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip: 0, Program: DOSBOX
C:\>masm 10.asm
Microsoft (R) MASM Compatibility Driver
Copyright (C) Microsoft Corp 1993. All rights reserved.

Invoking: ML.EXE /I. /Zm /c /Ta 10.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: 10.asm
C:\>link 10.obj;
Microsoft Object Linker V2.01 (Large)
Copyright (C) 1982, 1983 by Microsoft Inc.

Warning: No STACK segment
There was 1 error detected.
C:\>10.exe
THIS IS THE STRING
C:\>_
```

RESULT:

Thus the character string has been displayed in a standard output device.

Experiment No. 11: System date and time

Date: 16-10-2020

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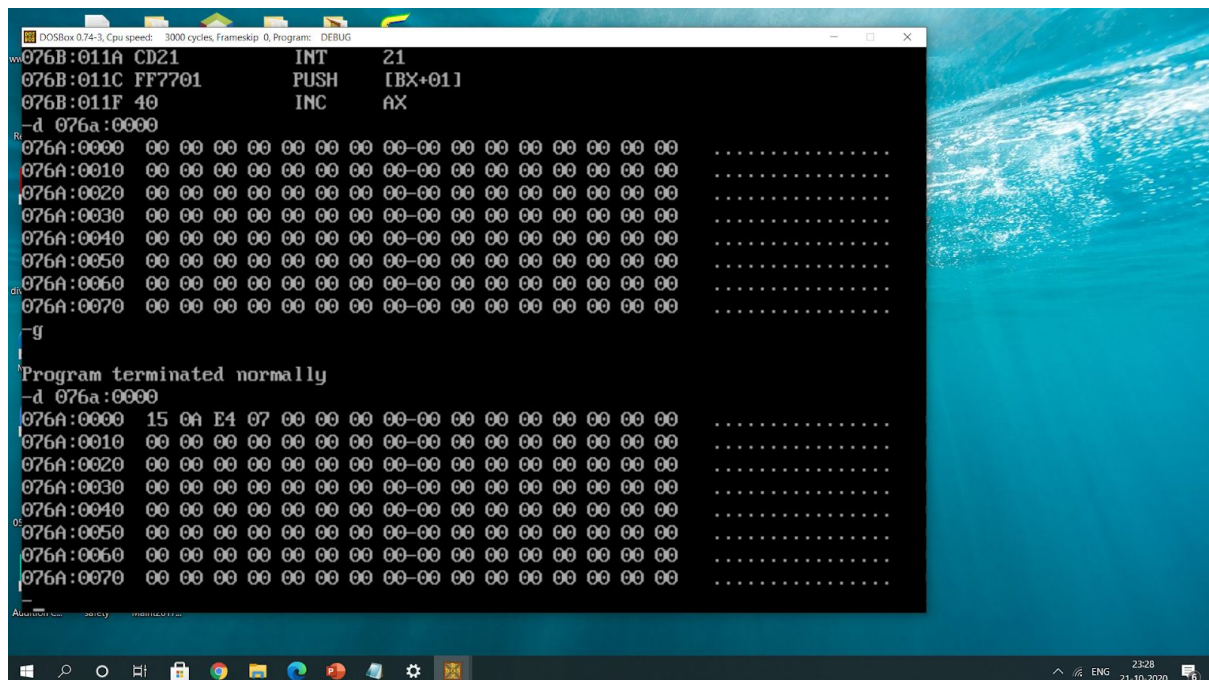
A.AIM:

Program for displaying system date.

PROGRAM:

PROGRAM	COMMENTS
start: mov ax,data mov ds,ax mov ah,2ah int 21h mov si,offset day mov [si],dl mov si,offset month mov [si],dh mov si,offset year mov [si],cx mov ah,4ch int 21h	Transferring address of data segment to ds Get system date Load si with offset of day Load dl to day Load si with offset of month Load dh to month Load si with offset of year Load cx to year Terminate the program

SAMPLE INPUT/OUTPUT:



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip: 0, Program: DEBUG
076B:011A CD21      INT     21
076B:011C FF7701    PUSH    [BX+01]
076B:011F 40      INC     AX
-d 076a:0000
076A:0000  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0010  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0020  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0030  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0040  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0050  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0060  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0070  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
-g
Program terminated normally
-d 076a:0000
076A:0000  15 0A E4 07 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0010  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0020  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0030  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0040  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0050  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0060  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
076A:0070  00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
```

RESULT:

Thus system date has been displayed.

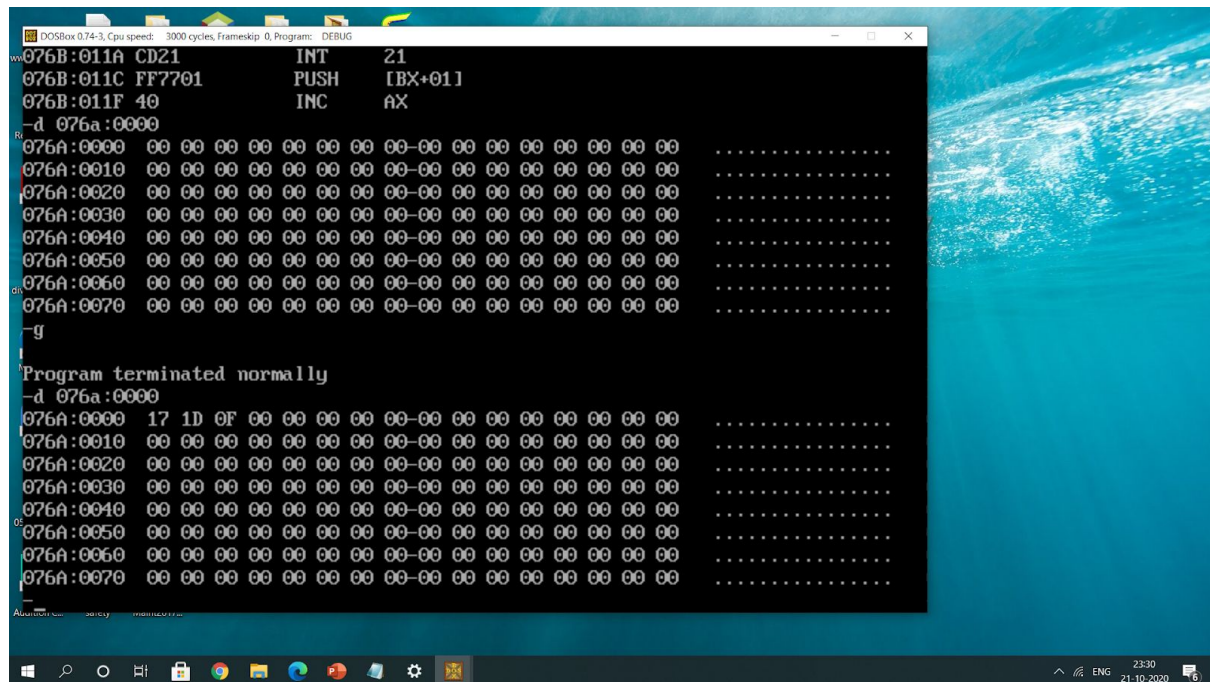
B.AIM:

Program for displaying system time.

PROGRAM:

PROGRAM	COMMENTS
start: mov ax,data mov ds,ax mov ah,2ch int 21h mov si,offset hour mov [si],ch mov si,offset minute mov [si],cl mov si,offset second mov [si],dh mov ah,4ch int 21h	Transferring address of data segment to ds Get system time Load si with offset of hour Load ch to hour Load si with offset of minute Load cl to minute Load si with offset of second Load dh to second Terminate the program

SAMPLE INPUT/OUTPUT:

A screenshot of a DOSBox emulator window. The window title is "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip: 0, Program: DEBUG". The main display area shows assembly code and a memory dump. The assembly code includes instructions like INT 21, PUSH [BX+01], INC AX, and MOV DS, AX. The memory dump shows addresses from 076A:0000 to 076A:0070. The text "Program terminated normally" is visible. The Windows taskbar is at the bottom, showing the time as 23:30 on 21-10-2020.

RESULT:

Thus system time has been displayed.

