

Experiment No. 10: Display a string

Date: 16-10-2020

NAME: Gayathri M

REG.NO: 185001050

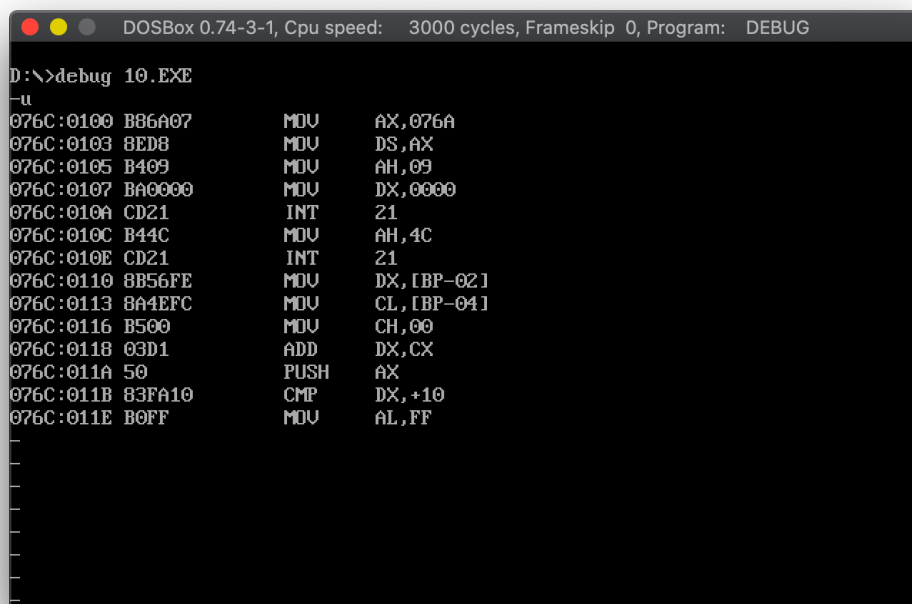
AIM:

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 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
D:\>debug 10.EXE
-u
076C:0100 B86A07      MOV     AX,076A
076C:0103 8ED8          MOV     DS,AX
076C:0105 B409          MOV     AH,09
076C:0107 BA0000      MOV     DX,0000
076C:010A CD21          INT     21
076C:010C B44C          MOV     AH,4C
076C:010E CD21          INT     21
076C:0110 8B56FE      MOV     DX,[BP-02]
076C:0113 8A4EFC      MOV     CL,[BP-04]
076C:0116 B500          MOV     CH,00
076C:0118 03D1          ADD     DX,CX
076C:011A 50          PUSH    AX
076C:011B 83FA10      CMP     DX,+10
076C:011E B0FF          MOV     AL,FF
```

```
DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
-d 076a:0000
076A:0000  54 48 49 53 20 49 53 20 54 48 45 20 53 54 52 49  THIS IS THE STRI
076A:0010  4E 47 24 00 00 00 00 00-00 00 00 00 00 00 00  NG$.
076A:0020  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  .....
076A:0040  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  .....
076A:0060  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  .....
-g
THIS IS THE STRING
Program terminated normally
```

```
DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
D:\>
D:\>
D:\>10.EXE
THIS IS THE STRING
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>
D:\>_
```

RESULT:

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

Experiment No. 11: System date and time

Date: 16-10-2020

NAME: Gayathri M

REG.NO: 185001050

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 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
D:\>debug 11a.EXE
-u
076B:0100 B86A07      MOV     AX,076A
076B:0103 8ED8        MOV     DS,AX
076B:0105 B42A        MOV     AH,2A
076B:0107 CD21        INT     21
076B:0109 BE0000     MOV     SI,0000
076B:010C 8814        MOV     [SI],DL
076B:010E BE0100     MOV     SI,0001
076B:0111 8834        MOV     [SI],DH
076B:0113 BE0200     MOV     SI,0002
076B:0116 890C        MOV     [SI],CX
076B:0118 B44C        MOV     AH,4C
076B:011A CD21        INT     21
076B:011C FF7701     PUSH    [BX+01]
076B:011F 40          INC     AX
```

```
DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
-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  0F 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.

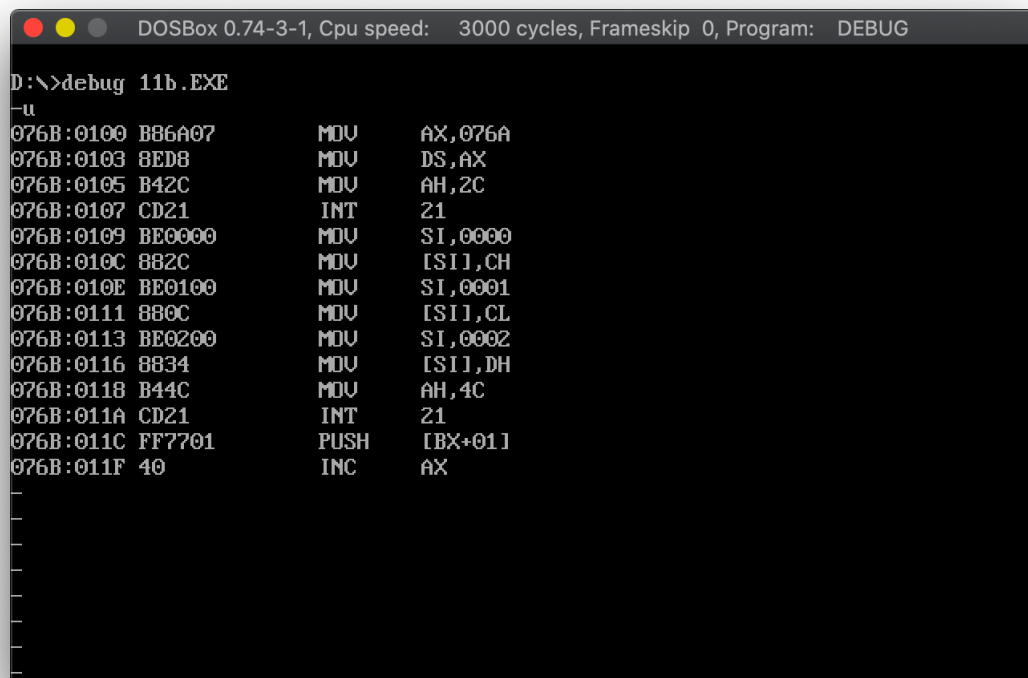
B.AIM:

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:



DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG

```
D:\>debug 11b.EXE
-u
076B:0100 B86A07      MOV     AX,076A
076B:0103 8ED8          MOV     DS,AX
076B:0105 B42C          MOV     AH,2C
076B:0107 CD21          INT     21
076B:0109 BE0000      MOV     SI,0000
076B:010C 882C          MOV     [SI],CH
076B:010E BE0100      MOV     SI,0001
076B:0111 880C          MOV     [SI],CL
076B:0113 BE0200      MOV     SI,0002
076B:0116 8834          MOV     [SI],DH
076B:0118 B44C          MOV     AH,4C
076B:011A CD21          INT     21
076B:011C FF7701      PUSH    [BX+01]
076B:011F 40           INC     AX
```

```
DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
-q
D:\>debug 11b.EXE
-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  0E 16 12 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  .....
```

RESULT:

Thus system time has been displayed.