LAB 4 (Task 1-5)

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TASK 1

- **Task1:** Create a new file of any name and in that file write your name and ID. No. twice on two different lines. Hint: make use of carriage return and line feed ASCII codes. Be sure to close the file.

Code:

```
.model tiny
.data
file1 db "lab4test.txt",0
gg dw ?
dat1 db "Dhairy Agrawal 2018B4A70827G" ,0dh,0ah,"Dhairy Agrawal
2018B4A70827G"
.code
.startup
```

mov ah,3ch lea dx,file1 mov cl,20h int 21h mov ah,3dh lea dx,file1 mov al,02h int 21h mov gg,ax mov ah,40h mov bx,gg lea dx,dat1 mov cx,58 int 21h mov bx,gg mov ah,3eh int 21h

.exit end

Screen Shot-



Explanation:

The Screenshot attached shows the input as name and ID Number in two lines updated in the file as LAB4TEST.

-To the file resulting from Task1, append your hostel name and room number. Close the file in the end.

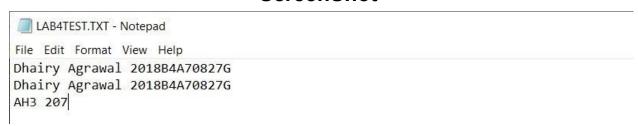
CODE:-

```
.model tiny
.data
fil db "lab4test.txt",0
gg dw ?
dat1 db 0dh,0ah,"AH3 207"
.code
.startup
```

mov ah,3dh lea dx,fil mov al,02h int 21h mov gg,ax mov bx,gg mov ah,42h mov bx,gg mov al,02h mov cx,0000 mov dx,0000 int 21h mov ah,40h mov bx,gg lea dx,dat1 mov cx,9 int 21h mov bx,gg mov ah,3eh int 21h

.exit end

ScreenShot



Explanation:

The Screenshot attached shows lines of inputs.

First two as the above task and the last line as hostel number and room number.

-Open the file you created in Task 2 and read its contents. You can count the number of bytes to be read beforehand. After reading the file, display the data using dos function call 09h. Close the file in the end.

CODE:-

.model tiny
.data
gg db "lab4test.txt",0
var1 dw ?
dat1 db 69 dup ('\$')
count dw 69
.code
.startup

mov ah,3dh lea dx,gg mov al,02h int 21h mov varl,ax mov bx,varl mov ah,42h mov al,0h mov cx,0000 mov dx,0000 int 21h mov ah,3fh lea dx,dat1 mov cx,count int 21h mov ah,09h lea dx,dat1 int 21h mov ah,3eh int 21h

.exit end

ScreenShot

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: ...
                                                                            X
Z:\>C:
C:\>cd C:\Users\agraw\Desktop\MASM611\BIN
C:\USERS\AGRAW\DESKTOP\MASM611\BIN>ml L4T3.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.
 Assembling: L4T3.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.
Object Modules [.obj]: L4T3.obj∕t
Run File [L4T3.com]: "L4T3.com"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:
C:\USERS\AGRAW\DESKTOP\MASM611\BIN>L4T3
Dhairy Agrawal 2018B4A70827G
Dhairy Agrawal 2018B4A70827G
AH3 207
C:\USERS\AGRAW\DESKTOP\MASM611\BIN>S
```

Explanation:

The input of the file is displayed as output.

-Open the file you created in Task 2. Read the entire file one byte at a time and stop after you reach the end of the file. After reading the file, display the data using dos function call 09h. Close the file in the end.

CODE:-

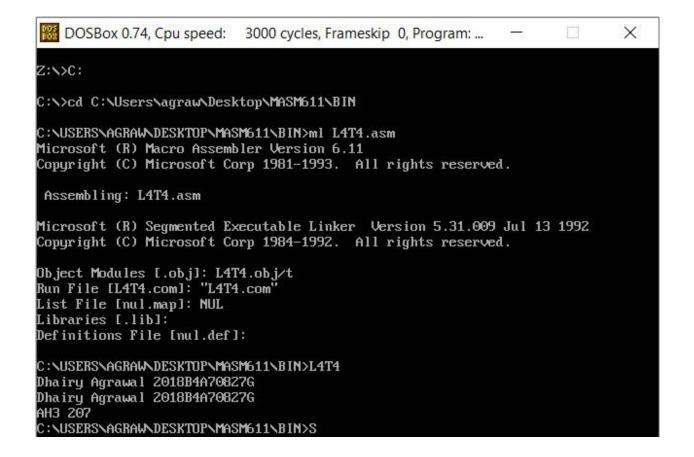
.model tiny

```
.486
.data
file db 'LAB4TEST.txt', 0
gg
      dw?
en
      dw?
count dw 0
datal db?
.code
.startup
      lea dx,file
      mov al,2h
      mov ah,3dh
      int 21h
      mov gg,ax
      mov bx,gg
      mov al,2h
      mov cx,0h
      mov dx,0h
      mov ah,42h
      int 21h
      mov en,ax
      mov al,0h
      mov cx,0h
      mov dx,0h
      mov ah,42h
      int 21h
      mov cx,1
      lea dx,data1
x1:
      mov ah,3fh
      int 21h
      inc dx
      add count,ax
```

mov ax,count cmp ax,en jnz x1 mov si,dx mov al,'\$' mov [si],al lea dx,data1 mov ah,09h int 21h mov ah,3eh int 21h .exit

end

ScreenShot



-Create a new file and write your name and ID. No. in it. Use a keyboard to input the data. Hint: Use dos function 0Ah for input from keyboard. Also try renaming the file and deleting it.

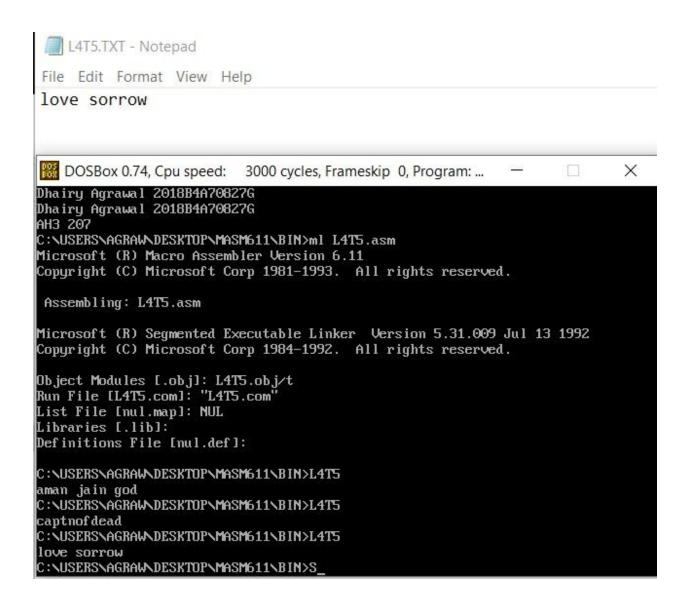
CODE:-

```
.model tiny
.486
.data
gg db "l4t5.txt",0
var1 dw?
max db 49
act db?
dat1 db 49 dup(?)
.code
.startup
```

mov ah,3ch lea dx,gg mov cl,20h int 21h mov ah,3dh lea dx,gg mov al,02h int 21h mov varl,ax mov bx,var1 mov ah,0ah lea dx,max int 21h mov bx,varl movzx cx,act lea dx,dat1 mov ah,40h int 21h mov ah,3eh int 21h

.exit end

ScreenShot



Explanation:

The input of the dosbox is appended in the file as displayed in output.