

## Assignment-8

Write X86 menu driver Assembly Language brogram (ALP) to implement OS(DOS) Commands TYPE, (OPY DELETE using file operations. User is supposed to provide command line arguments in all cases. Problem:
Write X86 menu driven assembly
Language Program (ALP) to implement 05 (DOS)
commands. Objective: To understand how to implement OS(DOS) command using file operations Outcome:

Students will study different DOS
commands and file operations. S/W and H/W requirements: Processor: (one 2 dup/13/15/17 OS: Linux 32 bit /64 bit OS Editor: gedit/vi Debugger: GDB Assembler: NASM

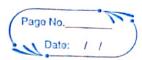
Concept Related Theory:



	Date: / /
*	Command Line Arguments:
(1)	Stores o at the end of file argument.
(2)	Stores o at the end of file argument. For numerical value ASCII value will be
	Sloved.
(3)	The court of variable will be stored in
thi	heradecinal.
	hite in the housepeak a will youth the
	oldos  lype o  a.test o  mov rcx, qword [rbx]
	· /dos pop stx
)	type o pop rbx
12/5/	[a.test o] mov rcx, qword (rbx)
	mov rsi, rbn.
	pop operation pops address of that value.
America	Coc 10-01
*	
(0)	Start
1.2)	pop no. of arguments, exe arguments and source file name.
(3)	Care Source file manage
(4)	Pop destination filename.
(5)	Save destination filename.
(6)	Open the file for reading.
(7)	Open or create the file for writing.
(8)	Chase Course File I all the
(9)	Close destination file.
(10)	Enit.



		Date: / /
	+	DOS DELETE Command.
	(1)	Start
	(2)	pop number of arguments, ener arguments
		and source filename.
	(3)	Save source file name
	(M)	Delite file.
	(5)	Exit, ship of the land the world
		Listeria y front as front began in
6	*	DOS TYPE Command
	(1)	Start
	(2)	
		tiename.
	(3)	Save source file name
	(a)	Open the file for reading.
	(5)	Write to the terminal
	(6)	Close source fide.
	(7)	Ent.
		Man 1.1
		Open file
		mov ran, 2; 'bpen' syscall. mov rdi, fname 1; File name.
		mos rai prane! The name.
e e		mov rsi, 0 mov rdn, 0777; permissions set.
		Suecall permissions ser.
	74-	Mov Efdin I, ran
		Jeron
		READ file.
		mor ray no 'Read' Succell
		mor rax on 'Read' Syscall. mor rdi, [fd-in]; file Pointer



mov rsi, buffer; Buffer for read, mov rdn, length; len of date want to read Syscall Write File mov ran, of; Write syscall.

mov rdi, [fd-in]; file pointer.

mov rsi, Buffer; Buffer for write.

mov rdn, length; len of data want to read, Syscall · Delete File mor ran, 87 mor rdi, frame syscall. Close File mov rai, [fdein] syscall Type (ommand:

(1) Openfile in read mode using open interrupt.

(2) Read contents of using read interrupt.

(3) Pisplay contents of file using write interrupt

(4) (lose file using close interrupt.



		Date: / /
	4	Copy command.
	(1)	Open file in read made using open interment
	(2)	Kead contents of file using read intermed
	(ઝ)	Create another file using read interrupt change
	(, )	only attributes.
	(h)	Open another file using open interrupt.
	(5)	Cili
	(6)	the.
	(~)	Open file in read mode using open interrupt. Read contents of file using read interrupt. Create another file using read interrupt change only attributes. Open another file using open interrupt. Write cent contents of buffer into opened file. Close both files using close interrupt.
	A	DELETE command: delute file using delete interrupt.
		delete tile civino doloto interment
	A.	je was of verse was reapt
		Conclusion: We have learn't how DOS
		Conclusion: We have learn't how DOS commands copy, type, delete work in ALP.
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