

Gujarat Vidyapith						
Department of Computer Science						
Assignment for Subject 201 (E1): Operating System						
Sub.:<MCA201>		Student Reg.No.:	Year : 2023-24	Subject Teacher : Neepa Shah		
No.	Problem Defination	Assignme nt Date	Submissi on Date	Sign of Teacher	Grade	Remark
1	Sharing file data between processes					
2	show the difference when you are using low level I/O function and high level I/O function					
3	show file buffering using exec call					
4	show the value of environment variable after fork					
5	List out how many user currently login with Unix system and display their details					
6	write a program to handle illegal instruction execution					
7	implement sorting using pipe					
8	display the result of “who” command in total no of words by using pipe					
9	implement two pipes using parent and child process					
10	implement named pipe					
11	create semaphore thro C program					
12	get the value of semaphore and set the value of semaphore					
13	Identify resource using by use thro semaphore					
14	Create one message queue and display its property using proper structure					
15	Create 10 message queue and remove each process thro system() command and try to get status when applying msgctl function to kill queue.					
16	Send and receive message using message queue.					

17	show the difference when you are using low level I/O function and high level I/O function					
18	show file buffering using exec call					
19	show the value of environment variable after fork					
20	List out how many user currently login with Unix system and display their details					
21	write a program to handle illegal instruction execution					
22	write a program to handle the child process and parent process ( when they terminate indicate by proper function)					
23	Write a program to display all the files from given directory.(display					
	file only if it is ascii)					
	if directory is not passed as argument then display from current dir.					
24	Accept filename as command line argument & display its permissions for					
	for read , write or execute otherwise display appropriate messages.					
25	Write a shell script which recursively delete *.obj , *.lst or all files					
	with length of zero bytes					
26	Write a shell script which concatenate all given files into a single file.					
	Put filename before every file.					
	e.g. *** filename : xyz ***					
27	Write a shell script for printing calender for the month that entered as					
	a char argument					
28	Write a shell script to generate following output.					
	Mon Aug 24 09:30:31 EST 1998					
	Date is .....: 24-08-98					
	Date is .....: 08/24/98					
	Time is .....: 09 - 30 -31					
	Time is .....: 09:30:31					

	No of days elapsed in this year is : 234					
	Serial no of day ( of week ) is : 31					
	Day and Date is.....: Tue Aug 24, 1998					
	Time in the form AM/PM .....: 09:30:31 AM					
	Good Morning					
29	write a shell script to copy a duplicate file from two directory to third directory and remove both the old files. Pass names of the directory as command line argument.					
30	Create a data file containing following fields each separated by ':' bk_cd,bk_name,bk_category,bk_author,publisher,pur_dt					
	1. display the book name and category for books other than in category 'fiction'					
	2. display the duplicate lines in the file.					
	3. count the number of lines after the tenth line in the file.					
	4. provide insert,delete,update and display options.					
31	Write a program to display all the files from given directory.(display file only if it is ascii)					
	if directory is not passed as argument then display from current dir.					
32	Write a shell script to find the sum of first n numbers , where n is accepted from the user.					
	1+2+3...n					
33	write a shell script to accept marks for C++,MIS,UNIX. Calculate the average of marks and display the message as follows.					
	- if average is 60 or above then 'first class'					
	- if average is 50 and less than 60 then 'second class'					
	- if average is 40 and less than 50 then 'third class'					
	- otherwise display 'fail'					

34	write a shell script to display a birthday message to all the users having birthday same as the system date and are currently logged in .				
	birthdate detail is stored in a file.				
	structure: username , login name , birthdate separated by ':'				
35	write a shell script to create a file.				
	membercode,membername,address,magazinename,monthofpubl,issuedate				
	- provide facility to insert,delete,update and search on this file.				
36	write a shell script that accept an option number , and the names of two files as commnad line arguments . Depending on the option the following option shold be taken.				
	option no            action				
	1                    copy first file to second file				
	2                    concatenate the files				
	3                    rename 1st file as 2nd file				
	4                    display no. of lines in both the files.				
37	write a unix shell script to keep on accepting lines of text and write the text into a data file until the user inputs "end". The script should count the number of lines input and display them.[ do not use wc ]				
38	write a shell script to concatenate all files of current directory to a single file.put filename before every file.				
Grade	Marks				
A	18 - 20				
B	14-17				
C	11-13				
D	8-10				
E	5-7				

F	1-4					
S	Absent					



