MODEL ENGINEERING COLLEGE ERNAKULAM CS 334 NETWORK PROGRAMMING LAB CYCLE I

Expt No:1	STUDY OF SYSTEM CALLS FOR OS PROGRAMMING
<date></date>	AIM: To study the system calls – create(), open(), read(), write(), close(),
	sleep(), exit(), unlink(), kill(), getpid(), getppid(), getuid(), getgid(), fork(),
LAB 1	pipe(), fifo(), execl()
<4/2/2019>	creat() system call
&	<header and="" description="" files,="" syntax=""></header>
<8/2/2019>	open() system call
	<header and="" description="" files,="" syntax=""></header>
	read() system call
	<header and="" description="" files,="" syntax=""></header>
	write() system call
	<header and="" description="" files,="" syntax=""></header>
	close() system call
	<header and="" description="" files,="" syntax=""></header>
	sleep() system call
	<header and="" description="" files,="" syntax=""></header>
	exit() system call
	<header and="" description="" files,="" syntax=""></header>
	unlink() system call
	<header and="" description="" files,="" syntax=""></header>
	kill() system call
	<pre><header and="" description="" files,="" syntax=""></header></pre>
	Program No: (i): To get the process id, parent process id, real user id, real
	group id, effective user id, effective group id.
	<pre><header and="" description="" files,="" getgid(),<="" getpid(),="" getppid(),="" getuid(),="" of="" pre="" syntax=""></header></pre>
	geteuid(), getegid()>
	Program, Execution Steps, Output
	Program No: (ii): Familiarization of fork() system call
	<header and="" description="" files,="" syntax=""></header>
	Program, Execution Steps, Output

	Program No: (iii): Familiarization of pipe() system call
	<header and="" description<="" files,="" syntax="" th=""></header>
	Program, Execution Steps, Output
	Program No: (iv): To create a FIFO (named pipe)
	<header and="" description="" files,="" syntax=""></header>
	Program, Execution Steps, Output
	Program No: (v): Familiarization of execl() system call
	<header and="" description="" files,="" syntax=""></header>
	Program, Execution Steps, Output
Expt No:2	FAMILIARISATION OF POSIX THREAD FUNCTIONS
<date></date>	AIM: To study the basic posix thread functions – pthread_create,
LAB 2	pthread_join, pthread_self, pthread_detach, pthread_exit
<11/2/2019> &	<header and="" description="" files,="" syntax=""></header>
<15/2/2019>	Program, Execution steps, Output
Expt No:3	INTERPROCESS COMMUNICATION USING PIPES
<date></date>	AIM: To implement interprocess communication using two pipes
LAB 3	<header and="" description="" files,="" syntax=""></header>
<18/2/2019>	Program, Execution steps, Diagram,Output
& <25/2/2019>	
Expt No:4	INTERPROCESS COMMUNICATION USING FIFO
<date></date>	AIM: To implement interprocess communication using fifo
LAB 3	<header and="" description="" files,="" syntax=""></header>
<18/2/2019>	Program, Execution steps, Output
& <25/2/2019>	
Expt No:5	INTERPROCESS COMMUNICATION USING POSIX MESSAGE
<date></date>	<u>QUEUES</u>
LAB 4	AIM: To implement interprocess communication using Message Queues.
<01/3/2019>	<pre><header and="" description="" files,="" syntax=""></header></pre>
& <11/3/2019>	Program, Execution steps, Output
	<u> </u>
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Expt No:6	INTERPROCESS COMMUNICATION USING POSIX SHARED
<date></date>	<u>MEMORY</u>
LAB 5	AIM: Write a program to create an integer variable using shared memory concept
<18/3/2019>	and increment the variable simultaneously by two processes. Use semaphores to
& <22/3/2019>	avoid race conditions
22/3/2013	<header and="" description="" files,="" syntax=""></header>
	Program, Execution steps, Output
	READERS-WRITERS PROBLEM
Expt No: 7	AIM: A Program to implement the Readers-Writers problem using Semaphores
<date></date>	and shared memory
LAB 6	<header algorithm="" and="" description="" files,="" syntax,=""></header>
<25/3/2019>	Program, Execution steps, Output
& <29/3/2019>	
	CYCLE II
Event No.0	STUDY OF SYSTEM CALLS FOR NETWORK PROGRAMMING
Expt No:8 <date></date>	
LAB 7	AIM: To study the system calls - Socket(), bind(), listen(), accept(),
<01/4/2019>	connect(),
&	<header and="" description="" files,="" syntax=""></header>
<05/4/2019>	Program, Execution Steps, Output SOCKET PROGRAMMING USING TCP
Expt No:9	Implement client server communication using socket programming and TCP as
<date></date>	transport layer protocol
LAB 8	<pre><header description="" files,="" syntax,and=""></header></pre>
<08/4/2019>	Program, Execution steps, Output
& &	Trogram, Execution steps, Sutput
<12/4/2019>	
Expt No:10	SOCKET PROGRAMMING USING UDP
<pre>cxpt No.10 <date></date></pre>	Implement client server communication using socket programming and UDP as
<12/4/2019>	
LAB 8 <08/4/2019> &	transport layer protocol <header and="" description="" files,="" syntax,=""> Program, Execution steps, Output</header>

	MULTICLIENT CHAT SERVER USING TCP
Expt No:11	Implement a multi client chat server using TCP as transport layer protocol
<date></date>	<header and="" description="" files,="" syntax,=""></header>
LAB 9	Program, Execution steps, Output
<22/4/2019>	
& <26/4/2019>	
	SIMPLE MAIL TRANSFER PROTOCOL
Expt No:12	Implement a simple mail transfer protocol
<date></date>	<header and="" description="" files,="" syntax,=""></header>
LAB 10	Program, Execution steps, Output
<22/4/2019> &	