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(), getpid(), getuid(), getgid(), fork(),
LAB 1	pipe(), fifo(), execl()
<6/2/2019>	creat() system call
&	<header and="" description="" files,="" syntax=""></header>
<7/2/2019>	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
	<header and="" description="" files,="" syntax=""></header>
	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(),="" 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,="" p="" syntax=""></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
<13/2/2019>	<header and="" description="" files,="" syntax=""></header>
& <14/2/2019>	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>
<27/2/2019>	Program, Execution steps, Diagram, Output
& <28/2/2019>	
Expt No:4	INTERPROCESS COMMUNICATION USING FIFO

/data>	AIM. To implement interpresses communication using fife
<date></date>	AIM: To implement interprocess communication using fifo
LAB 3	<header and="" description="" files,="" syntax=""></header>
<6/3/2019>	Program, Execution steps, Output
& <7/3/2019>	
Expt No:5	INTERPROCESS COMMUNICATION USING POSIX MESSAGE
<date></date>	QUEUES
LAB 4	AIM: To implement interprocess communication using Message Queues.
<13/3/2019> &	<header and="" description="" files,="" syntax=""></header>
<14/3/2019>	Program, Execution steps, Output
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
<20/3/2019>	and increment the variable simultaneously by two processes. Use semaphores to
& <21/3/2019>	avoid race conditions
	<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>
<27/3/2019>	Program, Execution steps, Output
& <28/3/2019>	
	CYCLE II
Expt No:8	STUDY OF SYSTEM CALLS FOR NETWORK PROGRAMMING
<date></date>	AIM: To study the system calls - Socket(), bind(), listen(), accept(),
LAB 7	connect(),
<03/4/2019>	

&	<header and="" description="" files,="" syntax=""></header>
<04/4/2019>	Program, Execution Steps, Output
	SOCKET PROGRAMMING USING TCP
Expt No:9	Implement client server communication using socket programming and TCP
<date></date>	as transport layer protocol
LAB 8	<header and="" description="" files,="" syntax,=""></header>
<10/4/2019>	Program, Execution steps, Output
& <11/4/2019>	
<11/4/2019>	
Expt No:10	SOCKET PROGRAMMING USING UDP
<date></date>	Implement client server communication using socket programming and UDP
LAB 8	as transport layer protocol
<17/4/2019>	<header and="" description="" files,="" syntax,=""></header>
& <11/4/2019>	Program, Execution steps, Output
Expt No:11	MULTICLIENT CHAT SERVER USING TCP Implement a multi client chat server using TCP as transport layer protocol <header and="" description="" files,="" syntax,=""> Program, Execution steps, Output</header>
	SIMPLE MAIL TRANSFER PROTOCOL
Expt No:12	Implement a simple mail transfer protocol
<date></date>	<pre><header and="" description="" files,="" syntax,=""></header></pre>
LAB 10	Program, Execution steps, Output
<24/4/2019>	
& <25/4/2019>	