RAMAIAH Institute of Technology

Department of Computer Science & Engineering

Exercise Number	Problem Statements
1.	a) Write a C program to display the file content in reverse order using lseek system call. b) b) Write a C program to create a child process and show how parent and child processes will share the text file and justify that both parent and child share the same file offset.
2.	a) Write a C program to display various details of a file using stat structure (At least 5 fields). b) Write a C program to demonstrate the creation of soft links and hard links.
3.	a) Write a C program to remove empty files from the given directory. b) Write a C program to implement ls –li command which lists the files in a specified directory. Your program should Print 5 attributes of files.
4.	a) Write a program to copy access and modification time of a file to another file using utime function. b) Write a program to read n characters from a file and append them back to the same file using dup2 function.
5.	a) Write a C program that takes the file name as an argument and prints the type of the given file. b) Write a program to differentiate between dup and dup2 functions
6.	a) Write a C program to demonstrate the usage of umask and chmod functions. b) Write a C program i. To read the first 20 characters from a file ii. seek to 10th byte from the beginning and display 20 characters from there iii. seek 10 bytes ahead from the current file offset and display 20 characters iv. Display the file size
7.	a) Demonstrate the working of wait and waitpid system calls with a program b) Write a program to demonstrate the zombie state of a process and provide the solution for the same.

HOD, Dept. of CSE