**EXPERIMENT – 24**

24. Design a C program to demonstrate UNIX system calls for file management.

#include <stdio.h>

#include <stdlib.h>

#include <fcntl.h>

#include <unistd.h>

#include <string.h>

int main() {

int fd;

char buffer[100];

ssize\_t bytesRead;

fd = open("demo.txt", O\_CREAT | O\_WRONLY, 0644);

if (fd < 0) {

perror("File creation failed");

exit(1);

}

char \*data = "Hello, this is written using write() system call.\n";

write(fd, data, strlen(data));

close(fd);

fd = open("demo.txt", O\_RDONLY);

if (fd < 0) {

perror("File open for reading failed");

exit(1);

}

printf("\nReading from file:\n");

bytesRead = read(fd, buffer, sizeof(buffer) - 1);

if (bytesRead < 0) {

perror("Read failed");

} else {

buffer[bytesRead] = '\0';

printf("%s", buffer);

}

close(fd);

if (unlink("demo.txt") == 0) {

printf("\nFile 'demo.txt' deleted successfully.\n");

} else {

perror("File deletion failed");

}

return 0;

}

SAMPLE OUTPUT:

Reading from file:

Hello, this is written using write() system call.

File 'demo.txt' deleted successfully.