**Experiment-24:Design a C program to demonstrate UNIX system calls for file management.**

Aim:

To demonstrate the use of UNIX system calls for file management, including opening, reading, writing, and closing files.

Procedure:

1. Create or Open a File: Use the open() system call to create or open a file.
2. Write to the File: Use the write() system call to write data to the file.
3. Read from the File: Use the read() system call to read data from the file.
4. Close the File: Use the close() system call to close the file.

C Code:

#include <stdio.h>

#include <fcntl.h>

#include <unistd.h>

int main() {

int fd;

char buffer[100];

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

if (fd == -1) {

perror("Error opening file");

return 1;

}

write(fd, "Hello, UNIX system calls!", 25);

close(fd);

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

if (fd == -1) {

perror("Error opening file");

return 1;

}

read(fd, buffer, sizeof(buffer));

printf("Content of file: %s\n", buffer);

close(fd);

return 0;

}

Output:

A screenshot of a computer

Description automatically generated