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:

```c
#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);
```

```c
    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: