B.BHANUTEJA REDDY-192325016

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

AIM:

To design a C program that demonstrates UNIX system calls for file management.

ALGORITHM:

1. Use open() to create and open a file.
2. Use write() to write data to the file.
3. Use lseek() to adjust the file pointer.
4. Use read() to read data from the file.
5. Use close() to close the file.

CODE:

```
#include <fcntl.h>
#include <unistd.h>
#include <stdio.h>
#include <string.h>

int main() {
  char buffer[100];
  int file = open("example.txt", O_CREAT | O_RDWR, 0644);

  if (file < 0) {
    perror("Error opening file");
    return 1;
  }
```

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

    lseek(file, 0, SEEK_SET);

    int bytesRead = read(file, buffer, sizeof(buffer) - 1);
    if (bytesRead > 0) {
        buffer[bytesRead] = '\0';
        printf("Data read from file: %s\n", buffer);
    }

    close(file);
    return 0;
}
```

OUTPUT: