

Practical 7

Natya Vidhan Biswas

B.Sc. (H) C.S. 25771

Write a program to copy files using system calls.

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

int main(int argc, char *argv[]) {
    int src, dst;
    char buf[1024];
    ssize_t n;

    if (argc != 3) return 1;

    src = open(argv[1], O_RDONLY);
    if (src < 0) return 1;

    dst = open(argv[2], O_WRONLY | O_CREAT | O_TRUNC, 0644);
    if (dst < 0) return 1;

    while ((n = read(src, buf, sizeof(buf))) > 0)
        write(dst, buf, n);

    close(src);
    close(dst);
    return 0;
}
```

```
Desktop $ cat file.txt
this is a file
there is some content in this
this is the thrid line of file
end of file
Desktop $ ./a.out file.txt dup.txt
Desktop $ ls
a.out  copy.c  dup.txt  file.txt  p
Desktop $ cat dup.txt
this is a file
there is some content in this
this is the thrid line of file
end of file
Desktop $
```