**PRACTICAL -5**

**OBJECTIVE: WRITE A PROGRAM TO COPY FILES USING SYSTEM CALLS.**

**SOL:**

#include <fcntl.h>

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

int main(int argc, char \*\*argv)

{

if (argc < 3)

{

fprintf(stderr, "Usage: ./main <src> <dest>\n");

return -1;

}

char buf; ssize\_t bytes;

int fdSrc, fdDest; mode\_t wrMode = 0777;

if ((fdSrc = open(argv[1], O\_RDONLY)) < 0)

{

fprintf(stderr, "Could not read %s\n", argv[1]);

return 2;

}

if ((fdDest = open(argv[2], O\_WRONLY | O\_CREAT | O\_TRUNC, wrMode)) < 0)

{

fprintf(stderr, "Could not write to %s\n", argv[2]);

return 2;

}

while ((bytes = read(fdSrc, &buf, 1)) > 0) write(fdDest, &buf, 1);

if (bytes < 0)

{

fprintf(stderr, "Could not read contents of %s\n", argv[1]);

return 2;

}

if (bytes == 0) write(fdDest, "\n", 1);

printf("Copied contents of %s to %s\n", argv[1], argv[2]);

close(fdSrc);

close(fdDest);

if ((fdDest = open(argv[2], O\_RDONLY)) < 0)

{

fprintf(stderr, "Could not read %s\n", argv[2]);

return 2;

}

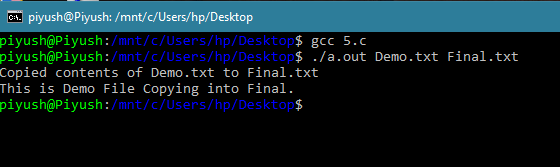
while ((bytes = read(fdSrc, &buf, 1)) > 0) printf("%c", buf);

close(fdDest);

return 0;

}

**OUTPUT:**

****