## Operating System Assignment 9

## 210010020

This assignment expects you to trace the working on the mfs file system, only for the file system mounted at /home (or /mnt/test), so we demonstrate the working for two directories /home and /usr/src.

## 1. File open:

• /usr/src:

```
# cat temp.txt

##
##
##
##
```

• /home

```
# cat f.txt
MINIX 210010020: file read: 6; nbytes = 4096; offset = 19
Assignment9 OS Lab
MINIX 210010020: file read: 6; nbytes = 4096; offset = 19
```

Inserted printf statements in open.c

## 2. Create and Read:

/usr/src:

```
# echo HI > temp.txt
# cat temp.txt
.git common games LICENSE params temp.txt
.gitignore distrib gnu log.txt releasetools tests
.gitreview docs include Makefile sbin tools
bin etc lib Makefile.inc share usr.bin
build.sh external libexec minix sys usr.sbin
```

• /home

```
# cd /home
# ls
link.c open.c read.c run.sh
# echo Assignment9 OS Lab > f.txt
MINIX 210010020: file created: 6
MINIX 210010020: file written: 6; nbytes = 19; offset = 19
```

Inserted printf statements read.c

- 3. Deleting/removing file:
  - /usr/src:

```
#
#
# rm temp.txt
# _
```

• /home:

```
MINIX 210010020: file read: 6; nbytes = 4096; offset = 19
# rm f.txt
MINIX 210010020: file deleted: 6
# _
```

Inserted print statements in link.c