

# Fairfield Shell (fsh) - Read Me

## Introduction:

In this Project I created a simple unix shell in C programming language. The shell is able to execute commands and can handle build-in commands like “exit” and “cd”.

## Usage:

To use the Fairfield Shell (fsh), follow these steps:

### 1. Compile the code:

Before using the shell, the code needs to be compiled.

```
gcc -o fsh fsh.c
```

### 2. Run the shell:

After compiling the code, start the shell by running the executable.

```
./fsh
```

### 3. Using the shell:

Once the shell is running, following commands can be entered at the “fsh>” prompt.

## Example Usage:

```
fsh> ls -la
total 36
drwxrwxr-x  4 abmubu abmubu  4096 Oct 23 10:53 .
drwxrwxr-x 11 abmubu abmubu  4096 Oct 21 21:27 ..
drwxrwxr-x  2 abmubu abmubu  4096 Oct 23 10:37 demo
-rwxrwxr-x  1 abmubu abmubu 13776 Oct 23 10:49 fsh
-rw-rw-r--  1 abmubu abmubu  1920 Oct 21 21:11 fsh.c
drwxrwxr-x  2 abmubu abmubu  4096 Oct 23 10:53 store
fsh> ls
demo fsh fsh.c store
fsh> cd demo
fsh> ls
demo.txt
fsh> cat demo.txt
Hello, World !
fsh> cd ..
fsh> ls -l
total 28
drwxrwxr-x 2 abmubu abmubu  4096 Oct 23 10:37 demo
-rwxrwxr-x 1 abmubu abmubu 13776 Oct 23 10:49 fsh
-rw-rw-r-- 1 abmubu abmubu  1920 Oct 21 21:11 fsh.c
drwxrwxr-x 2 abmubu abmubu  4096 Oct 23 10:53 store
fsh> exit
```

“ls”: list the file and directories

“ls -la”: provides a detailed list of all the files and directories in the current directory, including hidden files and directories.

“cat <filename>”: display the content inside the file.

**Build-In command:**

“cd <directory>”: change the current working directory.

“exit”: exit the shell

```
fsh> cd demo
```

```
fsh> exit  
abmubu@ubuntubeni:~/os/labWork/oct24Pro$
```

**Conclusion:**

The Fairfield Shell project is an opportunity to gain experience in Unix programming and develop a functional shell prompt.