

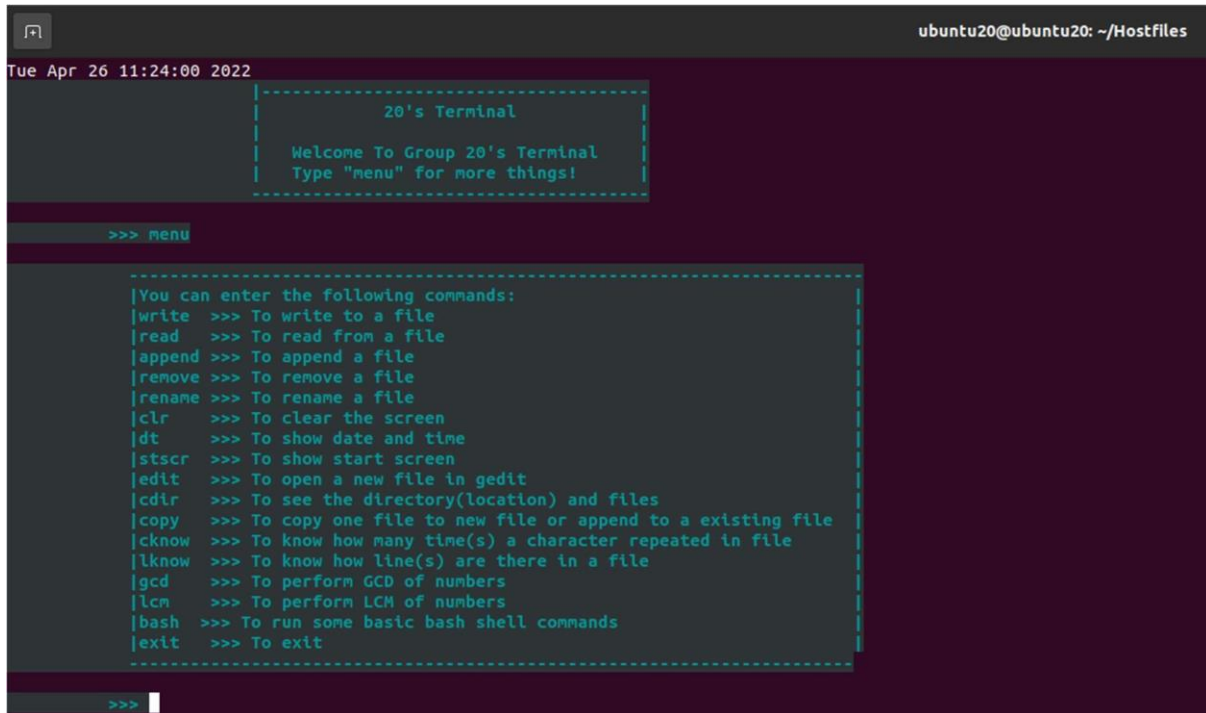
IT215 EndSem Project

Custom Terminal in C

Group 20

Code Output

- Calling the menu function. It lists all the available commands



```
ubuntu20@ubuntu20: ~/Hostfiles
Tue Apr 26 11:24:00 2022

20's Terminal
Welcome To Group 20's Terminal
Type "menu" for more things!

>>> menu

You can enter the following commands:
|write >>> To write to a file
|read >>> To read from a file
|append >>> To append a file
|remove >>> To remove a file
|rename >>> To rename a file
|clr >>> To clear the screen
|dt >>> To show date and time
|stscr >>> To show start screen
|edit >>> To open a new file in gedit
|cdir >>> To see the directory(location) and files
|copy >>> To copy one file to new file or append to a existing file
|cknow >>> To know how many time(s) a character repeated in file
|lknow >>> To know how line(s) are there in a file
|gcd >>> To perform GCD of numbers
|lcm >>> To perform LCM of numbers
|bash >>> To run some basic bash shell commands
|exit >>> To exit

>>> 
```

- Read and Write functions

```
ubuntu20@ubuntu20: ~/Hostfiles
Tue Apr 26 11:24:00 2022

-----
20's Terminal
-----
Welcome To Group 20's Terminal
Type "menu" for more things!
-----

>>> menu

-----
|You can enter the following commands:
|write >>> To write to a file
|read  >>> To read from a file
|append >>> To append a file
|remove >>> To remove a file
|rename >>> To rename a file
|clr   >>> To clear the screen
|dt    >>> To show date and time
|stscr >>> To show start screen
|edit  >>> To open a new file in gedit
|cdir  >>> To see the directory(location) and files
|copy  >>> To copy one file to new file or append to a existing file
|cknow >>> To know how many time(s) a character repeated in file
|lknow >>> To know how line(s) are there in a file
|gcd   >>> To perform GCD of numbers
|lcm   >>> To perform LCM of numbers
|bash  >>> To run some basic bash shell commands
|exit  >>> To exit
|-----
>>> 
```

-Append and remove functions

```
>>> append
Use .txt or any other extension to append
Ex: hello.txt

Enter File Name To Append:
>>> test.txt
Enter ~ to exit from writing
Start writing:
We are From DAIICT
~

Successfully Appended

>>> remove
Enter a file name to remove:
>>> test.txt
Successfully removed a file
```

-Rename function

```
>>> rename
Enter a file name to rename:
>>> IT215.c

Enter new name:
>>> IT215_Group20.c
Successfully renamed a file

>>> █
```

-cdir : To see the directory location.

copy function .

cknow : To get the number of repetitions of the character.

lknow : To get the number of lines in the file.

```
Ubuntu Software
Your Directory:
ConcurrentProgramming GCC_Compilation IPC-Signals IT215_Group20.c IT215.out lab2 lab4 lab6 lab8 NetworkProgramming Quiz\ 1 Quiz\ 3 Terminal.c test1.txt
File_IO IPC-Pipes IT215.exe IT215.o lab1 lab3 lab5 lab7 lab9 ProcessManagement Quiz\ 2 ShellScripts Terminal.out test2.txt

>>> copy
Use .txt or any other extension to copy
Ex: hello.txt

Enter existing file name:
>>> test1.txt

Enter copy destination file name:
>>> test2.txt
The file is not found

>>> cknow
Use .txt or any other extension to cknow
Ex: hello.txt

Enter existing file name:
>>> test1.txt

Enter the character to search:
>>> No. of times
repeated is = 2

>>> lknow
Use .txt or any other extension to lknow
Ex: hello.txt

Enter existing file name:
>>> test1.txt
No. of lines = 2
```

- gcd , lcm : These are some of the math functions which we have written.

```
>>> gcd
Enter two numbers (by pressing enter):

>>> 20 10
GCD = 10

>>> lcm
Enter two numbers (by pressing enter):

>>> 40 30
LCM = 120
```

- cat , ls

```
>>> bash
    Following are your options :
1.cat
2.ls
3.mv
4.Go back to menu
5.Exit from terminal
    Choose an option :
>>> 1
    Enter file path :
>>> test1.txt
    Hello this is our IT Project

    Following are your options :
1.cat
2.ls
3.mv
4.Go back to menu
5.Exit from terminal
    Choose an option :
>>> 2
    Enter folder path :
>>> /home/ubuntu20/Hostfiles
.
..
ConcurrentProgramming
File_IO
GCC_Compilation
IPC-Pipes
IPC-Signals
IT215.exe
IT215.o
IT215.odt
IT215.out
IT215_Group20.c
lab1
lab2
lab3
lab4
lab5
lab6
lab7
lab8
lab9
NetworkProgramming
ProcessManagement
Quiz 1
Quiz 2
Quiz 3
ShellScripts
Terminal.c
Terminal.out
test1.txt
test2.txt
```