[Document title]

[Document subtitle]

student name

[Year]

# contribution

|  |  |  |
| --- | --- | --- |
| Student 1 | | |
| Tasks performed | | contribution |
| Running.sh | Subroutine 1 | 48% |
| FileSystem.sh | Subroutine 1 (1, 2, 3, 4) |
| Subroutine 2 (1, 2) |
| Subroutine 6 (1, 2, 3) |
| Subroutine 7 (1, 2, 3) |
| Student 2 | | |
| Tasks performed | | contribution |
| Running.sh | Subroutine 2 | 52% |
| FileSystem.sh | Subroutine 3 (1, 2, 3, 4) |
| Subroutine 4 (1, 2, 3) |
| Subroutine 5 (1, 2, 3) |
| Subroutine 6 (4) |
| Subroutine 7 (5, 6) |

# source code:

## Running.sh

#! /bin/sh

echo Hi, Please enter your username:

read uname

echo

echo Welcome $uname!

echo

Date=$(date +"%m-%d-%Y")

time=$(date +"%T")

echo It\'s time to code again, DATE: "$Date", TIME: "$time"

echo

echo Redirecting to user home directory ...

cd /home/user

\_mydir="$(pwd)"

echo "The current working path is: $\_mydir"

echo "The current shell is: $SHELL"

echo

echo "The purpose of this script is to perform two subroutines, the first subroutine takes the username and displays it. it also displays current date, time, working directory and shell type. the second subroutine takes an input number of users and pass it to the second shell script

FileSystem.sh."

echo

echo -n "Enter number of users you want to create between 1 and 20: "

read unumber

export unumber

if [[ $unumber -le 0 ]] || [[ $unumber -ge 21 ]]

then

echo "Invalid input!!! Try again"

else

sh ./FileSystem.sh usernames.txt

fi

## FileSystem.sh

#!/bin/bash

//text-file containing usernames

userfile=/home/user/usernames.txt

//extracting usernames text-file

username=$(cat /home/user/usernames.txt | tr 'A-Z' 'a-z')

//allocating passwords

password=$username

//adding suers

for user in $username

do

//adding users '$user' is a variable that changes

// usernames accordingly in txt file.

useradd $user

echo $password | passwd --stdin $user

done

echo "users have been created"

tail -n$(wc -l /home/user/usernames.txt) /etc/passwd

cat /etc/passwd

#making directories

echo "SUBROUTINE 2"

echo

mkdir mycode

cd mycode

mkdir c

mkdir python

mkdir java

mkdir others

mkdir public

mkdir private

mkdir temp

#changing directory

echo "Subroutine 3"

echo

echo "enter username you want to change your directory to?"

read un

usermod -l $un user

echo "user changed"

#searching for c, cpp, java files etc.

for file in $(find . -iname "\*.c" -type f)

do

filename=$(basename ${file})

if [ ! -f /home/user/mycode/c/${filename} ]; then

mv ${file} /home/user/mycode/c/${filename}

else

rm ${file}

fi

done

for file in $(find . -iname "\*.java" -type f)

do

filename=$(basename ${file})

if [ ! -f /home/user/mycode/java/${filename} ]; then

mv ${file} /home/user/mycode/java/${filename}

else

rm ${file}

fi

done

for file in $(find . -iname "\*.cpp" -type f)

do

filename=$(basename ${file})

if [ ! -f /home/user/mycode/c/${filename} ]; then

mv ${file} /home/user/mycode/c/${filename}

else

rm ${file}

fi

done

for file in $(find . -iname "\*.py" -type f)

do

filename=$(basename ${file})

if [ ! -f /home/user/mycode/python/${filename} ]; then

mv ${file} /home/user/mycode/python/${filename}

else

rm ${file}

fi

done

for file in $(find . -iname "\*.temp" -type f)

do

filename=$(basename ${file})

if [ ! -f /home/user/mycode/temp/${filename} ]; then

mv ${file} /home/user/mycode/temp/${filename}

else

rm ${file}

fi

done

#changing permissions

echo "subroutine 4"

echo

chmod -R 750 /home/user/mycode/c

ls -l /home/user/mycode/c

chmod -R 750 /home/user/mycode/java

ls -l /home/user/mycode/java

chmod -R 750 /home/user/mycode/python

ls -l /home/user/mycode/python

chmod -R 710 /home/user/mycode/others

ls -l /home/user/mycode/others

chmod -R 775 /home/user/mycode/public

ls -l /home/user/mycode/public

chmod -R 700 /home/user/mycode/private

ls -l /home/user/mycode/private

# deleting temp folder

rm -rf /home/user/mycode/temp/\*.temp

# changing directory

echo "subroutine 5"

cd

echo

ls

echo

echo "enter folder name to navigate to: "

read fname

if [ ! -f /home/user/${fname} ]; then

cd /home/user/${fname}

else

echo "invalid folder name"

fi

echo "subroutine 6"

#installing c compiler

sudo apt-get install gcc

#installing java compiler

sudo apt install default-jre

#installing MySql server

sudo apt update

sudo apt install mysql-server

#checking MySql server

sudo systemctl status mysql

#checking storing disk system space results

df -h | tee DataUsage.txt

cat DataUsage.txt

echo "subroutine 7"

echo

ls /home/user/mycode

if [ ! -f /home/user/mycode/c ]; then

cd /home/user/mycode/c

else

echo "folder doesnot exist"

fi

if [ ! -f /home/user/mycode/c/g.c ]; then

mv g.c g\_currentDate.c

else

echo "file doesnot exist"

fi

gcc -o /home/user/mycode/c/g /home/user/mycode/c/g.c

/home/user/mycode/c/g

#changing prompt

echo $PS1

DEFAULT=$PS1

PS1="[user\_Linux] \u@\h:\w\$ "

#Changes the working directory

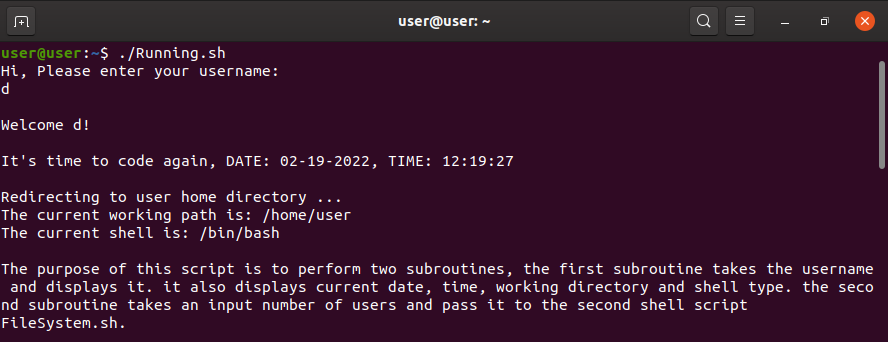
cd /home/user

#Displays the path of the current working directory

pwd

# output:

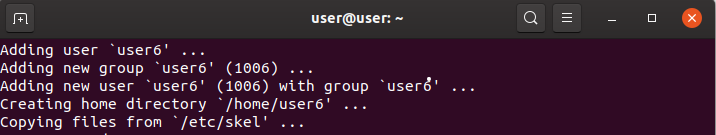
## running.sh (first subroutine)

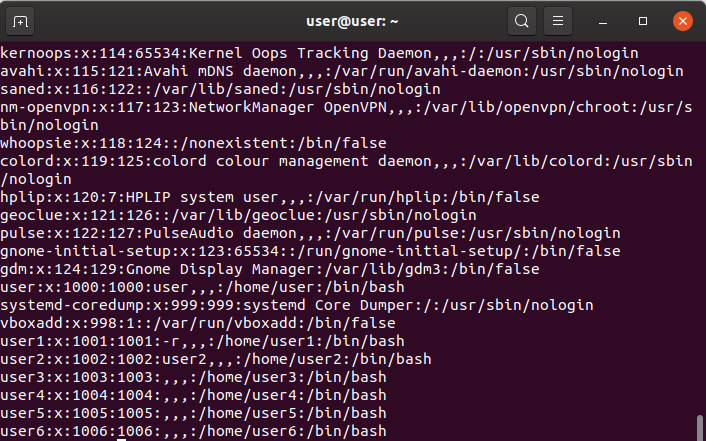


## running.sh (second subroutine)

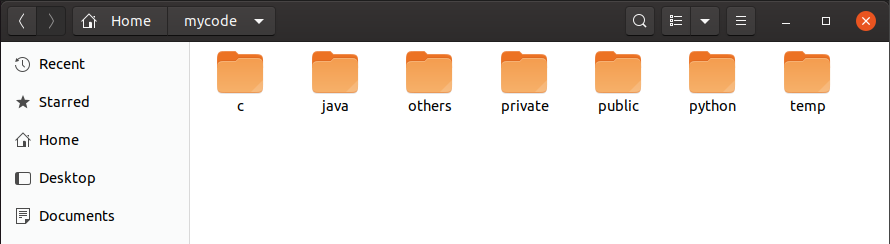


## filesystem.sh (first subroutine)





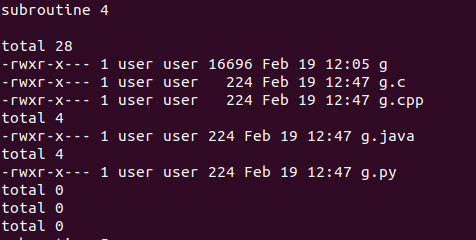
## filesystem.sh (second subroutine)



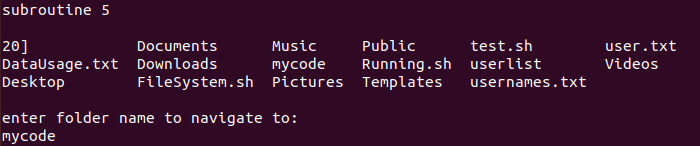
## filesystem.sh (third subroutine)



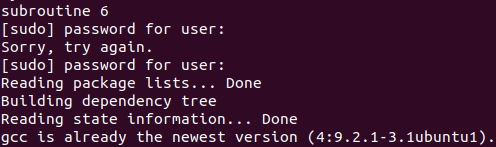
## filesystem.sh (fourth subroutine)



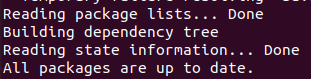
## filesystem.sh (fifth subroutine)



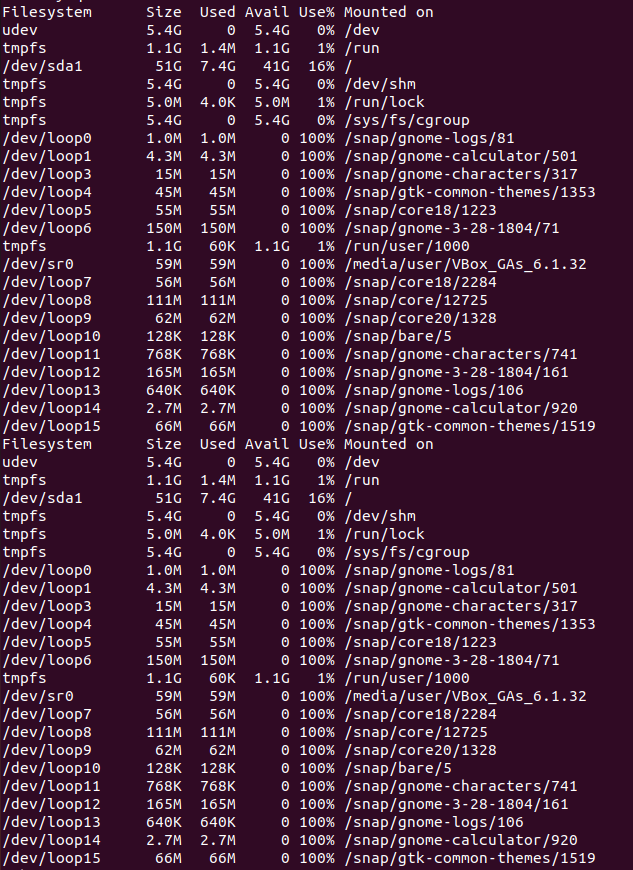
## filesystem.sh (sixth subroutine)

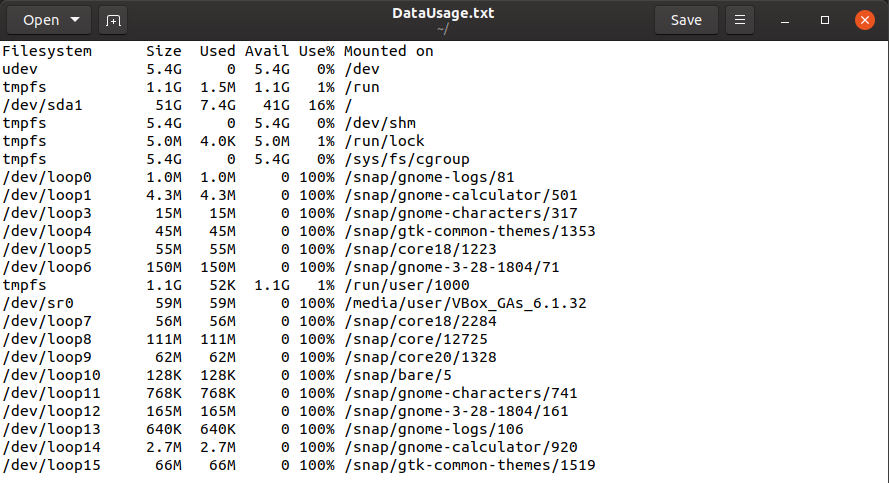












## filesystem.sh (seventh subroutine)



