

Jeremy Scheuerman

Computer Science 2

Lab 1

Task 0:

```
[jscheuerman1@hslinux ~]$ passwd
Changing password for user jscheuerman1.
Current Password:
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[jscheuerman1@hslinux ~]$
```

Cmd

Task 1:

/usr/include

Task 2:

..usr/bin

Task 3:

```
[jscheuerman1@hslinux ~]$ pwd
/mnt/linuxlab/home/jscheuerman1
[jscheuerman1@hslinux ~]$ ls
bin  public_html
[jscheuerman1@hslinux ~]$ mkdir COSC220
[jscheuerman1@hslinux ~]$ cd COSC220
[jscheuerman1@hslinux COSC220]$ mkdir Lab1
[jscheuerman1@hslinux COSC220]$ cd Lab1
[jscheuerman1@hslinux Lab1]$
```

Task 4:

```
[jscheuerman1@hslinux Lab1]$ ls -l /mnt/linuxlab/home/jscheuerman1
total 12
drwx-----. 2 jscheuerman1 users      4096 Jan 22 14:16 bin
drwxr-sr-x.  3 jscheuerman1 hugetlbfs  4096 Jan 26 13:30 COSC220
drwx-----. 2 jscheuerman1 users      4096 Jan 22 14:16 public_html
[jscheuerman1@hslinux Lab1]$ groups
users hugetlbfs
[jscheuerman1@hslinux Lab1]$
```

- a. Jscheuerman1 owns this directory
- b. Read write execute
- c. Users group is associated with this directory
- d. They can read write and execute
- e. Yes
- f. None

Task 5:

```
[jscheuerman1@hslinux ~]$ touch ~/foo
[jscheuerman1@hslinux ~]$ ls -l /mnt/linuxlab/home/jscheuerman1
total 12
drwx-----. 2 jscheuerman1 users      4096 Jan 22 14:16 bin
drwxr-sr-x. 3 jscheuerman1 hugetlbfs 4096 Jan 26 13:30 COSC220
-rw-r--r--. 1 jscheuerman1 hugetlbfs    0 Jan 26 15:00 foo
drwx-----. 2 jscheuerman1 users      4096 Jan 22 14:16 public_html
[jscheuerman1@hslinux ~]$
```

2.

a. regular file, read write

b.jscheuerman1

c.hugetlbfs

```
[jscheuerman1@hslinux ~]$ groups
users hugetlbfs
```

d.yes I am in that group

e.users, hugetlbfs

3.

```
[jscheuerman1@hslinux ~]$ chmod u+x foo
[jscheuerman1@hslinux ~]$ chmod g+w foo
[jscheuerman1@hslinux ~]$ chmod o+rx foo
```

Task 6:

2. a-all,l-use long listing format,R- recurssive lists all subdirectories recursively

```

[jscheuerman1@hslinux home]$ ls
lost+found matlabm nessus rpmbuild
[jscheuerman1@hslinux home]$ ls -l
total 28
drwx-----. 2 root      root      16384 Feb  5  2020 lost+found
drwxr-xr-x.  4 matlabm  matlabm   4096 Jun 15  2020 matlabm
drwxr-xr-x.  4 nessus   nessus     4096 Jan 22 12:56 nessus
drwxr-xr-x.  4 rpmbuild rpmbuild   4096 Jun 19  2020 rpmbuild
[jscheuerman1@hslinux home]$ ls -a
.  ..  lost+found matlabm nessus rpmbuild
[jscheuerman1@hslinux home]$

```

3.

Ls simply lists all the files in the directory, ls -l gives more detailed output about the file and the permissions of them, ls -a simply lists the files all in one long format

4. man time-a simple command or give resource usage

5. man -an interface to the on-line reference model

Time- time to get in seconds

Task # 7

```

          VIM - Vi IMproved
          version 7.4.629
          by Bram Moolenaar et al.
          Modified by <bugzilla@redhat.com>
          Vim is open source and freely distributable

          Help poor children in Uganda!
type  :help iccf<Enter>      for information

type  :q<Enter>              to exit
type  :help<Enter>  or  <F1>  for on-line help
type  :help version7<Enter> for version info

```

Task #8

```

[jscheuerman1@hslinux ~]$ cd COSC220/Lab1
[jscheuerman1@hslinux Lab1]$ touch hello.cpp
[jscheuerman1@hslinux Lab1]$ ls
hello.cpp
[jscheuerman1@hslinux Lab1]$

```

```
[jscheuerman1@hslinux Lab1]$ g++ -c hello.cpp
[jscheuerman1@hslinux Lab1]$ ls
hello.cpp  hello.o
[jscheuerman1@hslinux Lab1]$ g++ -o hello hello.o
[jscheuerman1@hslinux Lab1]$ ./hello
Hello from lab 1
[jscheuerman1@hslinux Lab1]$
```

Task #9

```
[jscheuerman1@hslinux Lab1]$ ./myprog
Square of 3 is 9
[jscheuerman1@hslinux Lab1]$
```

Source Code

Hello

//hello.cpp

//Jeremy Scheuerman

//Created 1/28/2021

#include <iostream>

int main(){

std::cout<<"Hello from lab 1"<<std::endl;

return 0;

}

File 1

//file1.cpp

//Contains the main function

//Created:1/28/21

//Current:1/28/21

#include <iostream>

```
#include "file2.h"
```

```
int main()
```

```
{
```

```
using namespace std;
```

```
int i=3;
```

```
int sq;
```

```
sq=SquareIt(i);
```

```
cout<<"Square of "<<i<<" is "<<sq<<endl;
```

```
return 0;
```

```
}
```

```
File2.cpp
```

```
//file2.cpp
```

```
//Def of squareIT function
```

```
//Demo for Lab 1,Cosc-220
```

```
//
```

```
//Jeremy Scheuerman
```

```
//Created 1/28/21
```

```
//Current 1/28/21
```

```
//
```

```
#include "file2.h"
```

```
int SquareIt(int x)
```

```
{
```

```
    return x*x;
```

```
}
```

```
File2.h
```

```
//file2.h
```

```
//Declaration of SquareIt function
```

```
//Demo for Lab 1, Cosc-220
```

```
//
```

```
//Jeremy Scheuerman
```

```
//Created:1/28/21
```

```
//Current:1/28/21
```

```
#ifndef FILE2_H
```

```
#define FILE2_H
```

```
int SquareIt(int);
```

```
#endif
```