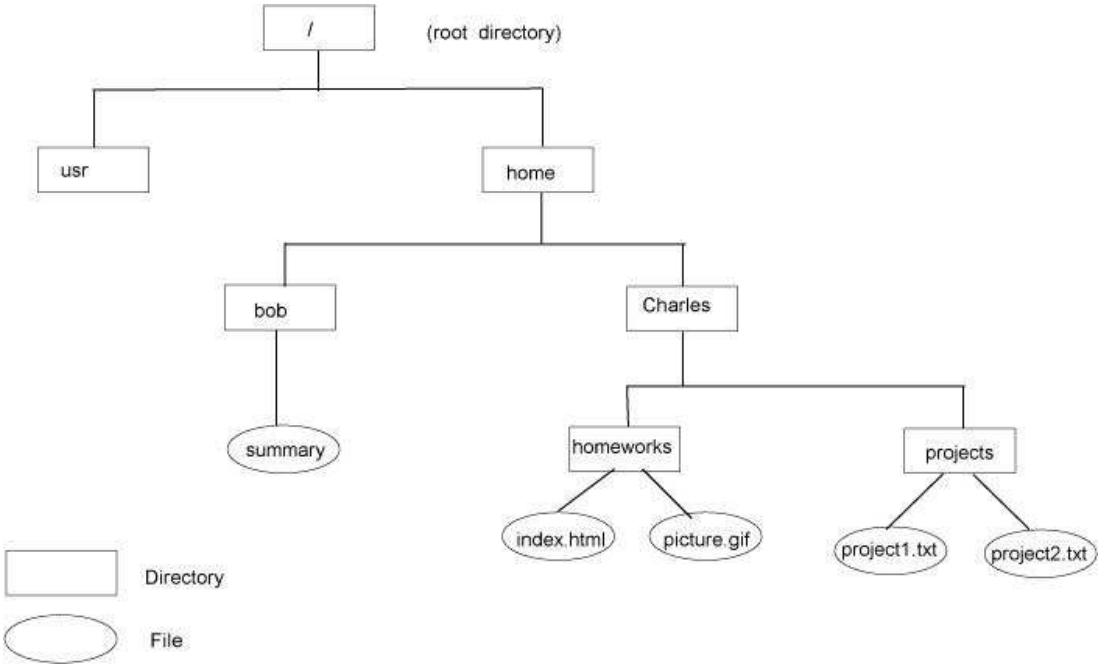
CIS333 - FINAL - 100 points - 60 minutes - August 6, 1998

1. (6 points) Which commands are used

- To create directories?
- To display/list the contents of a file?
- To delete a file in a directory?

Figure 1: related with Question 2



2. (2+6+4+4=16 points)

- After logging in, what will be Charles's current directory (absolute pathname)?
    - answer:
- After logging in, Charles wants to create ``public_html'' directory in his home directory; then he wants to copy the files in his ``homeworks'' directory (i.e. the ``index.html'' and ``picture.gif'' files) to the ``public_html'' directory. Which commands (in full) will he need?. (Note that the order is important)
- He is at his home directory and he wants to delete the ``project1.txt'' file in his ``projects'' directory. Which Command (or commands) will he use (in full) ?

- He is at this home directory and he wants to display the content of ``project2.txt'' file. Which Command (or commands) will he use (in full) ?

Q3. (16 points) Which command/program is used

- To create a single file (archive file) from multiple files?
- To compress a file to a smaller-size file?
- To transfer files from a remote system that you do not have account?
- To connect to another system that you have an account?

Q4. (12 points) After the following commands, what will the file/directory permissions (for the user, group, and others)?

- chmod 711 public_html
- chmod 644 index.html
- chmod 755 temp

Q5. (5 points) Assume that a user wants to find out the number of files and directories in his current directory? Which command (single command) will the user use? (Hint: pipes)

Q6. (5 points) What is the functionality of the input/output redirection? Explain with examples.

Q7. (10 points) Explain the following shell program line by line.

```
1.  echo Enter file name:
2.  read name
3.  if test -f $name -a -r $name
4.       then
5.            head -5 $name
6.  else
```

```
7.       echo Cannot display.
```

Q8. (10 points) What will be displayed on the screen after each print statement of the following PERL program?

```
@list = ("John", 47, 55);

print "$list[1] \n";

$list[2] = $list[1] + $list[2];

print "$list[1]  $list[2] \n";
```

Q9. (10 points) The following PERL program includes a while loop. What will be displayed after the execution? (YOU SHOULD CONSIDER ALL POSSIBLE ITERATIONS!)

```
$a = 5;

$b = 2;

while ($b > 0)

{

     $result = $a * $b;

     $print "$result \n";

     $b = $b - 1;

}
```

Q10. (10 points) Write an explanation/definition of each term in one or two sentences.

- CGI programming
-
- Newsreader
-
- FTP
-
- Frames in HTML context
-