Part A - Matching (can have multiple matches)

- 1. Symbol for the parent directory
- 2. Symbol that represents home directory
- 3. Display contents of a directory and option to view in detail.
- 4. Create a file
- 5. Changing directories
- 6. Removing files recursively
- 7. Create directories and its subdirectories respectively
- 8. Copying files or directories recursively
- 9. To view detailed information about a certain command
- 10. Check working directory
- 11. Quickly return to your home directory
- 12. Modify permissions
- 13. To move/rename a file/directory
- 14. Symbol for root directory
- 15. The command to count lines
- 16. The command to extract parts of a file
- 17. The command to display last 10 lines of a file
- 18. The command to display the first 10 lines of a file
- 19. Search for certain pattern from a file
- 20. The command to create a soft/Symbolic link

a)	mkdir - p
b)	man
c)	\$
d)	sort
e)	ср
f)	chmod
g)	/
h)	~
i)	WC
j)	tail
k)	link
1)	ls -l
m)	sort
n)	ls
0)	grep
p)	rm -r
q)	mv
r)	WC -W
s)	cp - r
t)	\
u)	cd
v)	ln -s
w)	pwd
x)	cut
у)	touch
z)	wc -l
aa)	ln
bb)	head
cc)	move
dd)	

Part B - Unix Commands

For Question 1 to 7 use the file below.

Note: The file format is as follows: First name, Last name, Age, ID

Assume all questions are independent of one another and the file is in your current directory.

Your answer must be in a single line

\$> cat contacts.csv

Rick, Sanchez, 70, 23456
Morty, Smith, 14, 23224
Beth, Smith, 34, 54221
Jerry, Smith, 35, 45632
Summer, Smith, 17, 37463
Gene, Vince, 71, 47362
???, Mr. Meeseeks, ???, 45324
Jessica, ???, 16, 74638
Doofus, Rick, 70, 98765
Evil, Morty, 14, 76453
Scary, Terry, ???, 99999
Noob, Noob, 25, 11001

- 1. Format the file so that each field is separated by a space instead of comma and sorted by last name and store the output to a file called "contactsmod.txt" (Hint: Use tr command)
- 2. Sort the file and display the output that do not end in a number 1 to 5.
- 3. Sort the file by in descending format and store the lines 6 to 10 in a file called "sortedDesc.txt" and display it on the screen.
- 4. Using SED replace all the invalid first names i.e. "???" with the name of your choice and save it into a new file called "validFirstnames.txt"
- 5. Grab all the lines with age below 70, store the output into a file called "ageLT70.csv" and display the total lines stored into the file. (Hint: Don' Lase grep/sort/cut)

Part B - Unix Commands (continue)

- 6. Replace all the instances of "smith" or "Smith" to "SMITH" in the same file. (Hint: Don't use trior grep)
- 7. Write a command to print all the VALID records (i.e. records without "???") of file contacts.csv in the following format "First name Lastname is age years old" and store the result in the same file.

For Question 8 to 11 use the file (cars) below.

Note: The file format is as follows: Car make, Model, Year, Price

Assume all questions are independent of one another and the file is in your current directory.

Your answer must be in a single line

\$> cat cars

Nissan,300ZX,1993,2305 Mitsubishi,Pajero,1992, Saturn,Ion,2003,11760 Pontiac,Tempest,1961,11500 Bugatti,Veyron,2009,1700000 Toyota,T100 Xtra,1995,2595 Mitsubishi,Mirage,1996,1618 Ford,Econoline E250,2000,1285 Maserati,Spyder,2005,87252

8. head -5 cars | awk -F, '\$4 > 3152 {print \$1 " " \$2 " costs \$" \$4}' | sort

9. awk -F, '\$3 >= 2000 && \$3 < 2009 {print "The " \$1 " " \$2 " is of the year " \$3}' cars

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Part B - Unix Commands (continue)

10.grep -i ",....\$" cars | sed 's/,/ /g' | sort -nrk4 | cut -d" " -f1,2
2>&1 >sortedExpCars.txt

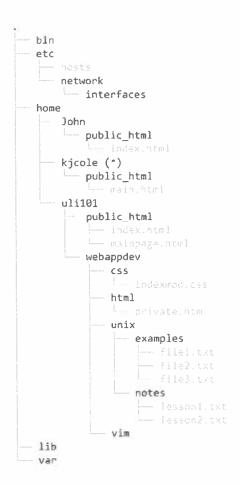
SCREEN	SORTEDEXPCARS.TXT

11.sed '1 s/[0-9]/*/' cars | head -1

12.egrep "([0-9 | a-zA-Z])*\ ([EXa-t | 250])*" cars

13. sort cars | tail -5 | head -2

Part C-File management



All answers are based on the following tree diagram displayed below. Assume all questions are independent of one another. john and ulilol belong to different groups. Write all the answers in single line.

Your user id: kjcole, Your PWD: /home/kjcole

- 1. Use an Absolute path to change the name of the directory examples to docs
- 2. Identify the type of paths (Pelative, Pelative to home or Absolute) for the following.

```
a. cp ~/public_html/* .
```

Part C- File management (continue)

3. Write a single Unix command to add the following directory path starting from John/



4. Write a single Unix command to give John and ULI101, read and write permissions on your public_html

5. Tite a command in SNGLEline without using ';' to create a directory under John called "notes" and copy everything from notes under user ulilo1 to the notes you created.

6. Write a command to remove all the folder examples under the user uli101.

Absolute Path:

Relative to home:

Relative Path:

Part E-Scripting

 Write the output of the script called grades below based on following calls. You can assume that script below is called grades and is in your current directory with appropriate permissions. Write the output/error based on the question.

```
read -p "Please Enter a Grade Number: " grade
if [[ $grade -ge 90 && $grade -le 100 ]];then
        echo "congratulations, you received an A+"
elif [[ $grade -ge 80 && $grade -le 89 ]];then
       echo "Very Good! you got an A"
elif [{ $grade -ge 70 && $grade -le 79 ]}; then
        echo "Good! you got a B!"
elif [[ $grade -ge 60 && $grade -le 69 ]]; then
        echo "you need to work a bit more but not bad! a C!!"
elif [[ $grade -ge 50 && $grade -le 59 ]]; then
        echo "ouch.. you need to stop playing games! you got a D!!"
elif [[ $grade -gt 0 && Sgrade -le 50 ]]; then
        echo "Well.. It happens. You know."
else
        echo ".....I dont get what you are trying to tell me....."
        exit 1
fi
```

a. ../grades

If the script runs, enter the value 59 as an input and write the expected output below:

b. ./grades 75

If the script runs, enter the value 75 as an input and write the expected output below

Part E – Scripting (continue)

c. grades

If the script runs, enter the value 90 as an input and write the expected output below:

- 2. Write a script which fulfills the following requirements. This script allows user to create files. Minimum files will be at least 5. You can assume that user will only enter numbers as an argument while calling the script. (Optional)
 - a. Name of the program/script should be createFiles
 - b. The program must check if there is a positional parameter and that parameter must have a number greater than 5. In the events of missing parameter, the program should handle the situation and print the following line as an error "USAGE: createFiles num-of-Files". However, if there is a parameter. The program should check the value and see if it fulfills the requirement of minimum 5 files. If it does not, it writes 5 files by default and prints the following message: "Setting the default number to 5" and should write 5 files in the current directory.
 - c. The name of file would follow the following pattern: filenum.txt. Example: file1.txt, file2.txt etc.
 - d. The files should contain the following line inside them,
 - "This filename was created on date"

Expected Output:

```
$ >createFiles
USAGE: createFiles Num-of-Files
$ >createFiles 4
Setting the default number to 5
$ >ls file?.txt
file1.txt file2.txt file3.txt file4.txt file5.txt
$ >cat file?.txt
This file1.txt was created on Mon Nov 20 12:54:17 STD 2017
This file2.txt was created on Mon Nov 20 12:54:17 STD 2017
This file3.txt was created on Mon Nov 20 12:54:17 STD 2017
This file4.txt was created on Mon Nov 20 12:54:17 STD 2017
This file5.txt was created on Mon Nov 20 12:54:17 STD 2017
```