Final Report Of Assignment 2B

The objective of the project is to build a mock shell file system and implement commands for it. In assignment 2B, we improved the work we done in assignment 2A, added several new methods and added new some figures to the old methods. Now, the mock file system can take 15 basic bash commands, which are listed and described as follows:

NEW FIGURES	
bash command	
ls [-R] [path]	1. list all content given a directory; 2. if a directory is not give, list all contents in the current directoy
	if **-R** is presented, list all sub-directories in the given path recursively. if the path is not given, list all sub-directories in the current path recursively.
get URL	get the file from the given URL link and add to the file to the current directory.
rm [-f] [path]	delete the path from the file system with user's confirmation. 1. if the path is a directory, delete all its contents recursively with confirmation for each one. 2. if **-f** is entered, remove contents without confirmation.
find [regex] [path]	recursively print all the file paths which is contained in regex.
	regex referred to "general expression.
grep [-R] [regex] [path]	print lines containing REGEX in path, where path is a file. If -R is presented, and the path is a directory, print out all lines of all files that contains REGEX, and the path of file.
man command	display a doc of necessary information for the command.

Old methods

bash command	**outcome**
mkdir DIR	create a directory
cd DIR	change directory to DIR
pwd	print the whole path of the current directory
mv [oldpath] [newpath]	move item [oldpath] to [newpath] (remove the oldpath)
cp [oldpath] [newpath]	copy item [oldpath] to [newpath] (DOES NOT remove the oldpath)
cat [file]	display the contents of file
echo [string] **>** [outfile]	1. if outfile is not provided, display string in shell 2. if outfile does not exist, create a new file and put in the string 3. if outfile exists, replace the old string with new string
echo [string] **>>** [outfile]	1. if outfile is not provided, display string in shell 2. if outfile does not exist, create a new file and put in the string 3. if outfile exists, add the new string to the end of the old string
exit	terminate the program

Summary:

Our group followed the scrum procedure during the project process. The four members of the group met several times at school lab and did the job together for a few hours, in order to communicate and find the problem in time. We had a 10-minute meeting before we started, to discuss what we left before, and what we are going to do next.

Being in a team allows each group member can study from each other. We are glad to be in a team and enjoy working together.