Aim: To Study shell program in order to count the number of files using command line argument, to validate date and its format Also to check if file has Write accessibility

THEORY:

1) Count the number of file using command line arguments.

There are certain special variables that can be used in the Shell Script:

i). \$0: The filmance of the current script.

- ii) &n: These variables correspond to the arguments with which a script was invaked. Here "n" is a positive decimal number corresponding to the position of an argument (the first argument is \$1, the second argument is \$2 and
- iii) \$#: The number of arguments supplied to a
- iv). \$ *: All the arguments are double quoted of a script receives two arguments, \$ * is equivalent to \$1 \$2.

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v). \$@: All of the arguments are individually double quoted. If a script receives two arguments, \$@ is equivalent to \$1 \$2	
vi). \$?: The exit status of the last command executed.	
vii). \$\$: The process number of the current shell. For shell scripti, this is the process in under which they are executing.	
viii). \$!: The process number of the last background command.	
Validate date and ite format. Before starting with validation first take an input from user in a particular format. Eg. 02-04-17	
echo Enterdate:	
if echo \$d grep [0-3][0-9][-][0-9][-] [0-9][0-9]	
then	
echo -e "In \$d is a valid date"	
echo -e"In \$d is not a valid date".	
fi.	

Explaination for greep command used in the code [0-3] checke the first of digit if its between ensures second digit is between 0 to 9 ensures third character is "-" (hyphen) [-] ensures fourth digit is either O or 1. [0-1] [0-9] ensures fifth digit is between 0 to 9. ensures sixth character is "-" (hyphen) C-J ensures seventh digit is between 0 to 9 [0-9] ensures eighth digit is botween 0 to 9. [0-9] 3) Check if the file has write Accessibility or not.

echo-e" In Enter filename:"

read f

if [-w \$f]

then then

echo-e" \n \$ \n has write permissions"

else

echo-e "\n \$ \n does not have write permissions"

li. Explaination for "if condition" used in the code of the denotes the filename entered by the user. -w This will check if the file name in \$ f