Practical No. 1

Name :- Janvi Vilas Kapse

USN :- CD24019

Command:- pwd,echo<arguments>

Output:

MINGW64:/c/Users/Janvi Kapse/OneDrive/Desktop/OS_CD24019

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ pwd
/c/Users/Janvi Kapse/OneDrive/Desktop

Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ echo Janvi Kapse
Janvi Kapse
```

Command: ls

Output:

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ ls
Canva.lnk*                              'Fee Receipt.pdf'   'NPTEL m.pdf'      desktop.ini      janvi-kapse-about-me.html    project.mobirise   sendkeys.vbs    whatsappg.vbs
'CodeTantra SEA.lnk'*                    'Microsoft Edge.lnk'*  OS_CD24019/     firstprogram.sql  janvi-kapse-expertise.html  'qr-code (1).png'  tae.docs.pdf
Contact.html                            'NPTEL j - Copy.pdf'  'Visual Studio Code.lnk'*  hacked.txt   janvi-kapse-journey.html   'screenshot 1.png'  watch.jpg
F-01-Reimbursement-Certificatio-Course.docx  'NPTEL j.pdf'   'admit card.pdf'   index.html       myfirstwebsite/              secret.txt         website.mp4
```

Command: Cat<filename>,man<command>

Screenshot:

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ cat hacked.txt
Welcome to the world
Hey SweetHeartWelcome to the world
Hey SweetHeartWelcome Hey Welcome to
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ man ls
bash: man: command not found
```

Command: ls --help

Screenshot:

```
Janvi Kapse@LAPTOP-03DBR8Q0 MINGW64 ~/OneDrive/Desktop (master)
$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILEs (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                  do not ignore entries starting with .
  -A, --almost-all           do not list implied . and ..
      --author               with -l, print the author of each file
  -b, --escape               print C-style escapes for nongraphic characters
      --block-size=SIZE      with -l, scale sizes by SIZE when printing them;
                               e.g., '--block-size=M'; see SIZE format below
  -B, --ignore-backups       do not list implied entries ending with ~
  -c                         with -lt: sort by, and show, ctime (time of last
                               modification of file status information);
                               with -l: show ctime and sort by name;
                               otherwise: sort by ctime, newest first
  -C                         list entries by columns
      --color[=WHEN]         colorize the output; WHEN can be 'always' (default
                               if omitted), 'auto', or 'never'; more info below
  -d, --directory            list directories themselves, not their contents
  -D, --dired                generate output designed for Emacs' dired mode
  -f                         do not sort, enable -aU, disable -ls --color
  -F, --classify             append indicator (one of */=>@|) to entries
      --file-type            likewise, except do not append '*'
      --format=WORD          across -x, commas -m, horizontal -x, long -l,
                               single-column -1, verbose -l, vertical -C
      --full-time            like -l --time-style=full-iso
  -g                         like -l, but do not list owner
      --group-directories-first
                             group directories before files;
                               can be augmented with a --sort option, but any
                               use of --sort=none (-U) disables grouping
  -G, --no-group             in a long listing, don't print group names
  -h, --human-readable       with -l and -s, print sizes like 1K 234M 2G etc.
      --si                   likewise, but use powers of 1000 not 1024
  -H, --dereference-command-line
                             follow symbolic links listed on the command line
      --dereference-command-line-symlink-to-dir
                             follow each command line symbolic link
                               that points to a directory
      --hide=PATTERN         do not list implied entries matching shell PATTERN
                               (overridden by -a or -A)
      --hyperlink[=WHEN]     hyperlink file names; WHEN can be 'always'
                               (default if omitted), 'auto', or 'never'
      --indicator-style=WORD  append indicator with style WORD to entry names:
                               none (default), slash (-p),
                               file-type (--file-type), classify (-F)
  -i, --inode                print the index number of each file
  -I, --ignore=PATTERN       do not list implied entries matching shell PATTERN
  -k, --kibibytes            default to 1024-byte blocks for disk usage;
                               used only with -s and per directory totals
  -l                         use a long listing format
  -L, --dereference          when showing file information for a symbolic
                               link, show information for the file the link
                               references rather than for the link itself
```

```
-m                            fill width with a comma separated list of entries
-n, --numeric-uid-gid         like -l, but list numeric user and group IDs
-N, --literal                 print entry names without quoting
-o                            like -l, but do not list group information
-p, --indicator-style=slash
                              append / indicator to directories
-q, --hide-control-chars      print ? instead of nongraphic characters
    --show-control-chars      show nongraphic characters as-is (the default,
                                unless program is 'ls' and output is a terminal)
-Q, --quote-name              enclose entry names in double quotes
    --quoting-style=WORD      use quoting style WORD for entry names:
                                literal, locale, shell, shell-always,
                                shell-escape, shell-escape-always, c, escape
                                (overrides QUOTING_STYLE environment variable)
-r, --reverse                 reverse order while sorting
-R, --recursive               list subdirectories recursively
-s, --size                    print the allocated size of each file, in blocks
-S                            sort by file size, largest first
    --sort=WORD               sort by WORD instead of name: none (-U), size (-S),
                                time (-t), version (-v), extension (-X)
    --time=WORD               change the default of using modification times;
                                access time (-u): atime, access, use;
                                change time (-c): ctime, status;
                                birth time: birth, creation;
                              with -l, WORD determines which time to show;
                              with --sort=time, sort by WORD (newest first)
    --time-style=TIME_STYLE   time/date format with -l; see TIME_STYLE below
-t                            sort by time, newest first; see --time
-T, --tabsize=COLS            assume tab stops at each COLS instead of 8
-u                            with -lt: sort by, and show, access time;
                                with -l: show access time and sort by name;
                                otherwise: sort by access time, newest first
-U                            do not sort; list entries in directory order
-v                            natural sort of (version) numbers within text
-w, --width=COLS              set output width to COLS.  0 means no limit
-x                            list entries by lines instead of by columns
-X                            sort alphabetically by entry extension
-Z, --context                 print any security context of each file
-1                            list one file per line.  Avoid '\n' with -q or -b
    --append-exe              append .exe if cygwin magic was needed
    --help     display this help and exit
    --version  output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10*1024).
Units are K,M,G,T,P,E,Z,Y (powers of 1024) or KB,MB,... (powers of 1000).
Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

The TIME_STYLE argument can be full-iso, long-iso, iso, locale, or +FORMAT.
FORMAT is interpreted like in date(1).  If FORMAT is FORMAT1<newline>FORMAT2,
then FORMAT1 applies to non-recent files and FORMAT2 to recent files.
TIME_STYLE prefixed with 'posix-' takes effect only outside the POSIX locale.
Also the TIME_STYLE environment variable sets the default style to use.

Using color to distinguish file types is disabled both by default and
with --color=never.  With --color=auto, ls emits color codes only when
standard output is connected to a terminal.  The LS_COLORS environment
variable can change the settings.  Use the dircolors command to set it.
```

```
Using color to distinguish file types is disabled both by default and
with --color=never.  With --color=auto, ls emits color codes only when
standard output is connected to a terminal.  The LS_COLORS environment
variable can change the settings.  Use the dircolors command to set it.

Exit status:
 0  if OK,
 1  if minor problems (e.g., cannot access subdirectory),
 2  if serious trouble (e.g., cannot access command-line argument).

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>
Full documentation <https://www.gnu.org/software/coreutils/ls>
or available locally via: info '(coreutils) ls invocation'
```

Command: grep <string><file>, head -n <N><file>, tail -n <N><file>, chmod u-r<filename>

Screenshot

```
Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ grep "HEY" hacked.txt

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ head -n 5 hacked.txt
Welcome to the world
Hey SweetHeartWelcome to the world
Hey SweetHeartWelcome Hey Welcome to
Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ tail -n 5 hacked.txt
Welcome to the world
Hey SweetHeartWelcome to the world
Hey SweetHeartWelcome Hey Welcome to
Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ chmod u-r hacked.txt
```

Command : rm<filename>

Screenshot:

```
Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ cp nptel j.pdf newfile.txt
cp: target 'newfile.txt' is not a directory

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ mv newfile.txt data.txt
mv: cannot stat 'newfile.txt': No such file or directory

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ ls
Canva.lnk*                              'Fee Receipt.pdf'     'NPTEL m.pdf'            desktop.ini        janvi-kapse-about-me.html    project.mobirise    sendkeys.vbs    whatsappg.vbs
'CodeTantra SEA.lnk'*                    'Microsoft Edge.lnk'*  OS_CD24019/             firstprogram.sql   janvi-kapse-expertise.html   'qr-code (1).png'   tae.docs.pdf
Contact.html                             'NPTEL j - Copy.pdf'  'Visual Studio Code.lnk'*  hacked.txt        janvi-kapse-journey.html     'screenshot 1.png'  watch.jpg
F-01-Reimbursement-Certificatio-Course.docx  'NPTEL j.pdf'     'admit card.pdf'        index.html         myfirstwebsite/              secret.txt          website.mp4

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ rm final.txt
rm: cannot remove 'final.txt': No such file or directory

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ rm watch.jpeg
rm: cannot remove 'watch.jpeg': No such file or directory

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ rm index.html

Janvi Kapse@LAPTOP-03DBR8QO MINGW64 ~/OneDrive/Desktop (master)
$ ls
Canva.lnk*                              'Fee Receipt.pdf'     'NPTEL m.pdf'            desktop.ini        janvi-kapse-expertise.html   'qr-code (1).png'   tae.docs.pdf
'CodeTantra SEA.lnk'*                    'Microsoft Edge.lnk'*  OS_CD24019/             firstprogram.sql   janvi-kapse-journey.html     'screenshot 1.png'  watch.jpg
Contact.html                             'NPTEL j - Copy.pdf'  'Visual Studio Code.lnk'*  hacked.txt        myfirstwebsite/              secret.txt          website.mp4
F-01-Reimbursement-Certificatio-Course.docx  'NPTEL j.pdf'     'admit card.pdf'        janvi-kapse-about-me.html  project.mobirise     sendkeys.vbs        whatsappg.vbs
```