

Question #1.

```
liamv@Gus MINGW64 ~  
$ pwd  
/c/Users/liamv  
  
liamv@Gus MINGW64 ~  
$ ls  
AppData/  
'Application Data'@  
Contacts/  
Cookies@  
Documents/  
Downloads/  
Favorites/  
HomeworkVolk_Klos/  
ImportingLibraries.ipynb  
IntelGraphicsProfiles/  
Links/  
'Local Settings'@  
Music/  
'My Documents'@  
'NCH Software Suite'/  
NTUSER.DAT  
NTUSER.DAT{1376c576-b7d2-11ed-9f1f-9081ff2aae1c}.TM.b1f  
NTUSER.DAT{1376c576-b7d2-11ed-9f1f-9081ff2aae1c}.TMContainer00000000000000000000  
1.regtrans-ms  
NTUSER.DAT{1376c576-b7d2-11ed-9f1f-9081ff2aae1c}.TMContainer00000000000000000000  
2.regtrans-ms  
NetHood@  
OneDrive/  
PrintHood@  
Recent@  
'Saved Games'/  
Searches/  
SendTo@  
'Start Menu'@  
Templates@  
TestDATA413/  
Untitled.ipynb  
Untitled1.ipynb  
Untitled2.ipynb  
Untitled3.ipynb  
Videos/  
anaconda3/  
ansel/  
example1.txt  
example2.txt  
example3.txt  
example4.txt  
example6.txt  
file.html  
file.txt  
git_hist.txt  
myfile.txt  
ntuser.dat.LOG1  
ntuser.dat.LOG2  
ntuser.ini  
tem_dir/  
temp_dir/  
  
liamv@Gus MINGW64 ~  
$ cd ../  
  
liamv@Gus MINGW64 /c/Users  
$ pwd  
/c/Users  
  
liamv@Gus MINGW64 /c/Users  
$ cd ~
```

Question #2.

```

liamv@Gus MINGW64 ~
$ cd ../../../../

liamv@Gus MINGW64 /
$ pwd
/

liamv@Gus MINGW64 /
$ cd ~

```

Question #3.

```

liamv@Gus MINGW64 ~
$ 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 -l, 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

```

Question #4.

```
liamv@Gus MINGW64 ~  
$ touch myfile.txt  
  
liamv@Gus MINGW64 ~  
$ stat myfile.txt  
  File: myfile.txt  
  Size: 73          Blocks: 1          IO Block: 65536  regular file  
Device: a019081dh/2685995037d  Inode: 12666373952005261  Links: 1  
Access: (0644/-rw-r--r--)  Uid: (197609/  liamv)   Gid: (197609/ UNKNOWN)  
Access: 2024-02-06 19:27:53.165579100 -0500  
Modify: 2024-02-06 19:27:52.765134600 -0500  
Change: 2024-02-06 19:27:52.764548400 -0500  
 Birth: 2023-04-04 08:35:38.264866400 -0400
```

Question #5.

```
liamv@Gus MINGW64 ~  
$ ls -l example1.txt  
-rw-r--r-- 1 liamv 197609 48 Apr  4  2023 example1.txt  
  
liamv@Gus MINGW64 ~  
$ ls -l myfile.txt  
-rw-r--r-- 1 liamv 197609 73 Feb  6 19:27 myfile.txt
```

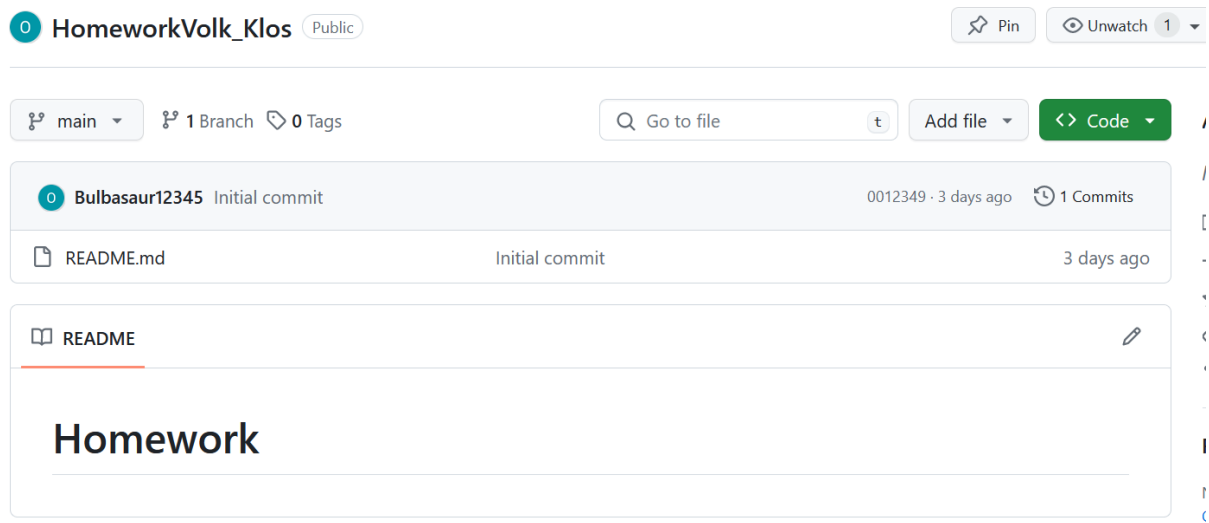
Question #6.

```
liamv@Gus MINGW64 ~  
$ echo "This line is my first line" >> myfile.txt  
  
liamv@Gus MINGW64 ~  
$ cat myfile.txt  
because he's the hero Gotham deserves,  
but not the one it needs right nowThis line is my first line
```

Question #7.

```
liamv@Gus MINGW64 ~  
$ touch myfile.txt  
  
liamv@Gus MINGW64 ~  
$ ls -l myfile.txt  
-rw-r--r-- 1 liamv 197609 100 Feb  6 19:36 myfile.txt
```

Screenshot of Repository:



Solution of Screenshot in Repository:

