1. What is the difference between shell and bash?

A shell is an interface that lets its users interact with operating systems by typing commands. Bash, on the other hand, is specific version of a shell, that is most commonly used today and designed as an improved version of Bourne shell.

2.To respond to this question, you need to use terminal/Bash and have a screenshot of your terminal/bash.

```
| Description | Property | Description | Property | Description | Descri
```

- A. The home directory is /c/Users/Daniel
- B. Files/Folders include Desktop, Documents, Downloads, and Music

3. To respond to this question, you need to use terminal/Bash and have a screenshot of your terminal/bash.

```
MINGW64:/c/Users/Daniel

Daniel@DESKTOP-HTM87VB MINGW64 ~
$ cd ../../

Daniel@DESKTOP-HTM87VB MINGW64 /c
$ pwd
/c

Daniel@DESKTOP-HTM87VB MINGW64 /c
$ cd

Daniel@DESKTOP-HTM87VB MINGW64 ~
$ pwd
/c/Users/Daniel

Daniel@DESKTOP-HTM87VB MINGW64 ~
$
```

- A. '/c', Two levels up from /c/Users/Daniel
- B. the command 'cd' returns you to the home directory, in this case, /c/Users/Daniel
- 4. The -a flag (or --all) instructs is to display all files, including hidden ones that begin with a dot .). The -I: lists files in long format and provides detailed information for them

```
aniel@DESKTOP-HTM87VB MINGW64 ~
 ls --help
Jsage: ls [OPTION]... [FILE]...
ist information about the FILEs (the current directory by default).
Fort entries alphabetically if none of -cftuvSUX nor --sort is specified.
andatory arguments to long options are mandatory for short options too.
 -a, --all
-A, --almost-all
                               do not ignore entries starting with .
                              do not list implied . and .. with -1, print the author of each file
      --author
                               print C-style escapes for nongraphic characters
 -b, --escape
                              with -1, scale sizes by SIZE when printing them;
e.g., '--block-size=M'; see SIZE format below
do not list implied entries ending with ~
      --block-size=SIZE
 -B, --ignore-backups
                               with -lt: sort by, and show, ctime (time of last
                                 modification of file status information);
                                 with -1: show ctime and sort by name;
                                 otherwise: sort by ctime, newest first
 -C
                               list entries by columns
                               colorize the output; WHEN can be 'always' (default
     --color[=WHEN]
                                 if omitted), 'auto', or 'never'; more info below
                               list directories themselves, not their contents
 -d, --directory
 -D, --dired
                               generate output designed for Emacs' dired mode
                               do not sort, enable -aU, disable -ls --color
                               append indicator (one of */=>@|) to entries
 -F, --classify
                               likewise, except do not append
      --file-type
      --format=WORD
                               across -x, commas -m, horizontal -x, long -1,
                                 single-column -1, verbose -1, vertical -C
     --full-time
                               like -l --time-style=full-iso
                               like -1, but do not list owner
 -g
      --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 -1 and -s, print sizes like 1K 234M 2G etc.
                               likewise, but use powers of 1000 not 1024
      --si
 -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
                               do not list implied entries matching shell PATTERN
     --hide=PATTERN
                                 (overridden by -a or -A)
     --hyperlink[=WHEN]
                               hyperlink file names; WHEN can be 'always'
                                (default if omitted), 'auto', or 'never' append indicator with style WORD to entry names: none (default), slash (-p),
     --indicator-style=WORD
                                 file-type (--file-type), classify (-F)
                               print the index number of each file
 -i, --inode
                               do not list implied entries matching shell PATTERN
 -I, --ignore=PATTERN
 -k, --kibibytes
                               default to 1024-byte blocks for disk usage;
                                 used only with -s and per directory totals
                               use a long listing format
 -L, --dereference
                               when showing file information for a symbolic
                                 link, show information for the file the link
```

5. Question 5: (A and B each have 5 points, and C has 10 points. The total is 20 points.) To respond to this question, you need to use terminal/Bash and have a screenshot of your terminal/bash.

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Question 6: (40 Points) To respond to this question, you need to use terminal/Bash and have a screenshot of your terminal/bash.

```
Daniel@DESKTOP-HTM87VB MINGW64 ~

$ echo "This line is my first line." >> ~/temp_bash/myfile.txt
echo "This line is my second line." >> ~/temp_bash/myfile.txt
cat ~/temp_bash/myfile.txt
This line is my first line.
This line is my second line.

Daniel@DESKTOP-HTM87VB MINGW64 ~

$ cp ~/temp_bash/myfile.txt ~/temp_bash/copy_myfile.txt

Daniel@DESKTOP-HTM87VB MINGW64 ~

$ echo "This line is a new line" > ~/temp_bash/copy_myfile.txt
cat ~/temp_bash/copy_myfile.txt
This line is a new line

Daniel@DESKTOP-HTM87VB MINGW64 ~

$ aniel@DESKTOP-HTM87VB MINGW64 ~

$ aniel@DESKTOP-HTM87VB MINGW64 ~

$ Daniel@DESKTOP-HTM87VB MINGW64 ~

$ Daniel@DESKTOP-HTM87VB MINGW64 ~

$ aniel@DESKTOP-HTM87VB MINGW64 ~

$ aniel@DESKTOP-HTM87VB MINGW64 ~
```

Answer: With '>>' (Append Redirection), it adds (or appends) the output to the end of the file, and if the file doesn't exist, it will be created. Additionally, the previous contents of the file remain intact.

In contrast, '>' (Overwrite Redirection), overwrites the file with the new content. Put simply, if the file already exists, it must be cleared before the new content is written. Furthermore, if said file doesn't exist, it will be created.