

Total points: 10

**Give a Linux command for each of the followings (1-6):**

1. Create a directory (from your home directory) `cs390/hw1/ex1`

```
mkdir -p cs390/hw1/ex1
```

2. Change back to your home directory regardless where you are.

Any of the followings:

```
cd
```

```
cd ~
```

```
cd $HOME
```

3. List the content of the current directory and redirect it to file `list.txt`

```
ls > list.txt
```

4. Copy file `list.txt` to a new location `/tmp`

```
cp list.txt /tmp
```

5. Rename file `list.txt` to `myfiles.txt`

```
mv list.txt myfiles.txt
```

6. Define an environmental variable **CS390** with value **“/tmp/cs390sp20”** in bash

```
export CS390=/tmp/cs390/sp20
```

7. After (6), what will be displayed to the screen:

- `echo $CS390` → `/tmp/cs390/sp20`
- `echo ` $CS39 `` → `$CS390`
- `echo \ $CS390` → `$CS390`
- `echo "CS390"` → `CS390`

8. Briefly explain UNIX environmental variable `PATH` and how is it used?

*PATH is a colon-separated list of directories used by the shell when searching for a program. The order of the search is from left to right.*