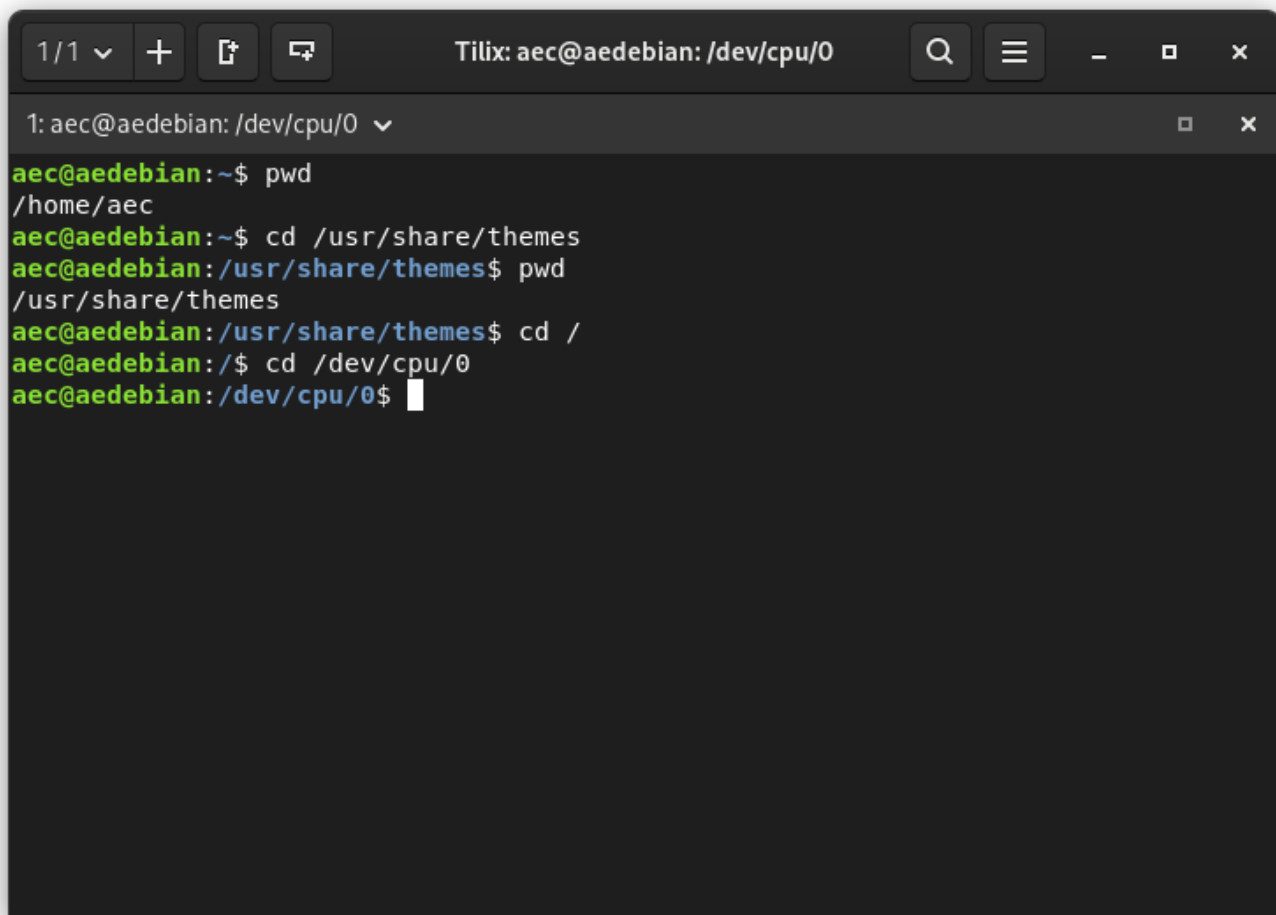


LAB 5

- Question 1 | Moving around the file system



A terminal window titled "Tilix: aec@aedebian: /dev/cpu/0" with standard window controls. The terminal shows a sequence of commands and their outputs:

```
1: aec@aedebian: /dev/cpu/0 ▾  
aec@aedebian:~$ pwd  
/home/aec  
aec@aedebian:~$ cd /usr/share/themes  
aec@aedebian:/usr/share/themes$ pwd  
/usr/share/themes  
aec@aedebian:/usr/share/themes$ cd /  
aec@aedebian:/$ cd /dev/cpu/0  
aec@aedebian:/dev/cpu/0$
```

Using pwd and cd with a relative path

```

1/1  +  [ ]  [ ]  Tilix: aec@adebian: ~/Documents  [Q] [≡] [ ] [ ] [X]

1: aec@adebian: ~/Documents  [ ] [X]

aec@adebian:/dev/cpu/0$ cd
aec@adebian:~$ cd Downloads/
aec@adebian:~/Downloads$ cd ../../
aec@adebian:/home$ pwd
/home
aec@adebian:/home$ cd Documents/
bash: cd: Documents/: No such file or directory
aec@adebian:/home$ cd aec/Documents/
aec@adebian:~/Documents$

```

- Question 2 | The ls command

```

Tilix: aec@adebian: ~/lab5files  [Q] [≡] [ ] [ ] [X]

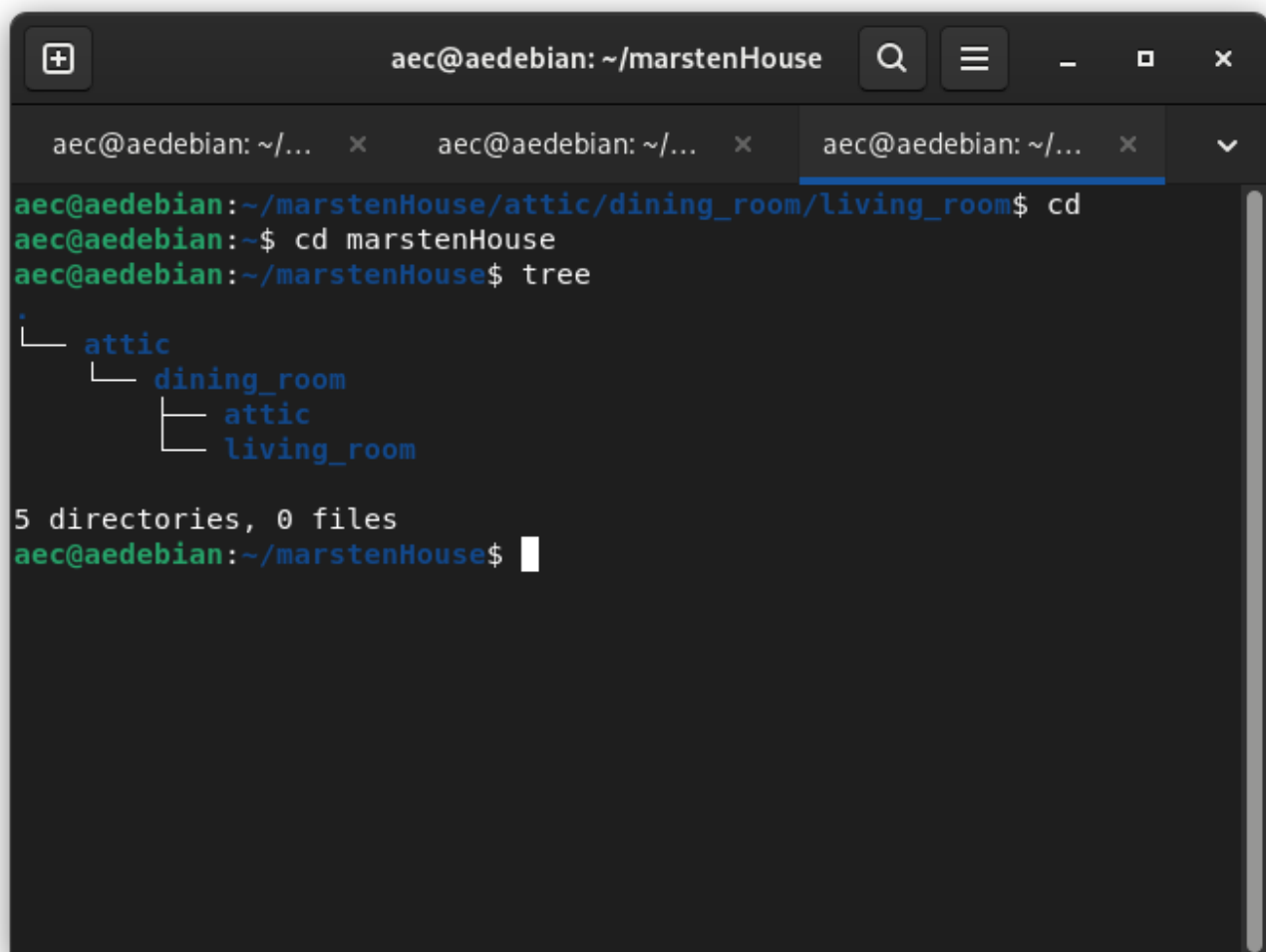
1: aec@adebian: ~/lab5files  [ ] [X]

aec@adebian:~$ cd /usr/share/
aec@adebian:/usr/share$ cd ~/lab5files
aec@adebian:~/lab5files$ ls
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png     website.html
aec@adebian:~/lab5files$ ls -lhSr
bash: ls: command not found
aec@adebian:~/lab5files$ ls -lhSr
total 6.5M
-rw-rw-r-- 1 aec aec  76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 aec aec 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 aec aec 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 aec aec 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 aec aec 135K Feb 22 2022 website.html
-rw-rw-r-- 1 aec aec 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 aec aec 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 aec aec 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 aec aec 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 aec aec 2.5M Feb 22 2022 Linux.pdf
aec@adebian:~/lab5files$ ls -lhSr --time-style=" " --inode --no-group lab5files
ls: cannot access 'lab5files': No such file or directory
aec@adebian:~/lab5files$ ls -lhSr --time-style=" " --inode --no-group
total 6.5M
6181910 -rw-rw-r-- 1 aec 76 helloWorld.c
6181911 -rw-rw-r-- 1 aec 8.5K sample.xls
6181906 -rw-rw-r-- 1 aec 20K countries.json
6181904 -rw-rw-r-- 1 aec 42K Tux.png
6181912 -rw-rw-r-- 1 aec 135K website.html
6181907 -rw-rw-r-- 1 aec 278K csvfile.csv
6181909 -rw-rw-r-- 1 aec 726K globe.avi
6181908 -rw-rw-r-- 1 aec 747K document.docx
6181905 -rw-rw-r-- 1 aec 2.1M Ubuntu.pdf
6181903 -rw-rw-r-- 1 aec 2.5M Linux.pdf
aec@adebian:~/lab5files$ ls -lXr
total 6580
-rw-rw-r-- 1 aec aec 8784 Feb 22 2022 sample.xls
-rw-rw-r-- 1 aec aec 42777 Feb 22 2022 Tux.png
-rw-rw-r-- 1 aec aec 2114053 Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 aec aec 2600138 Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 aec aec 20471 Feb 22 2022 countries.json
-rw-rw-r-- 1 aec aec 137453 Feb 22 2022 website.html
-rw-rw-r-- 1 aec aec 764176 Feb 22 2022 document.docx
-rw-rw-r-- 1 aec aec 284042 Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 aec aec 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 aec aec 742478 Feb 22 2022 globe.avi
aec@adebian:~/lab5files$

```

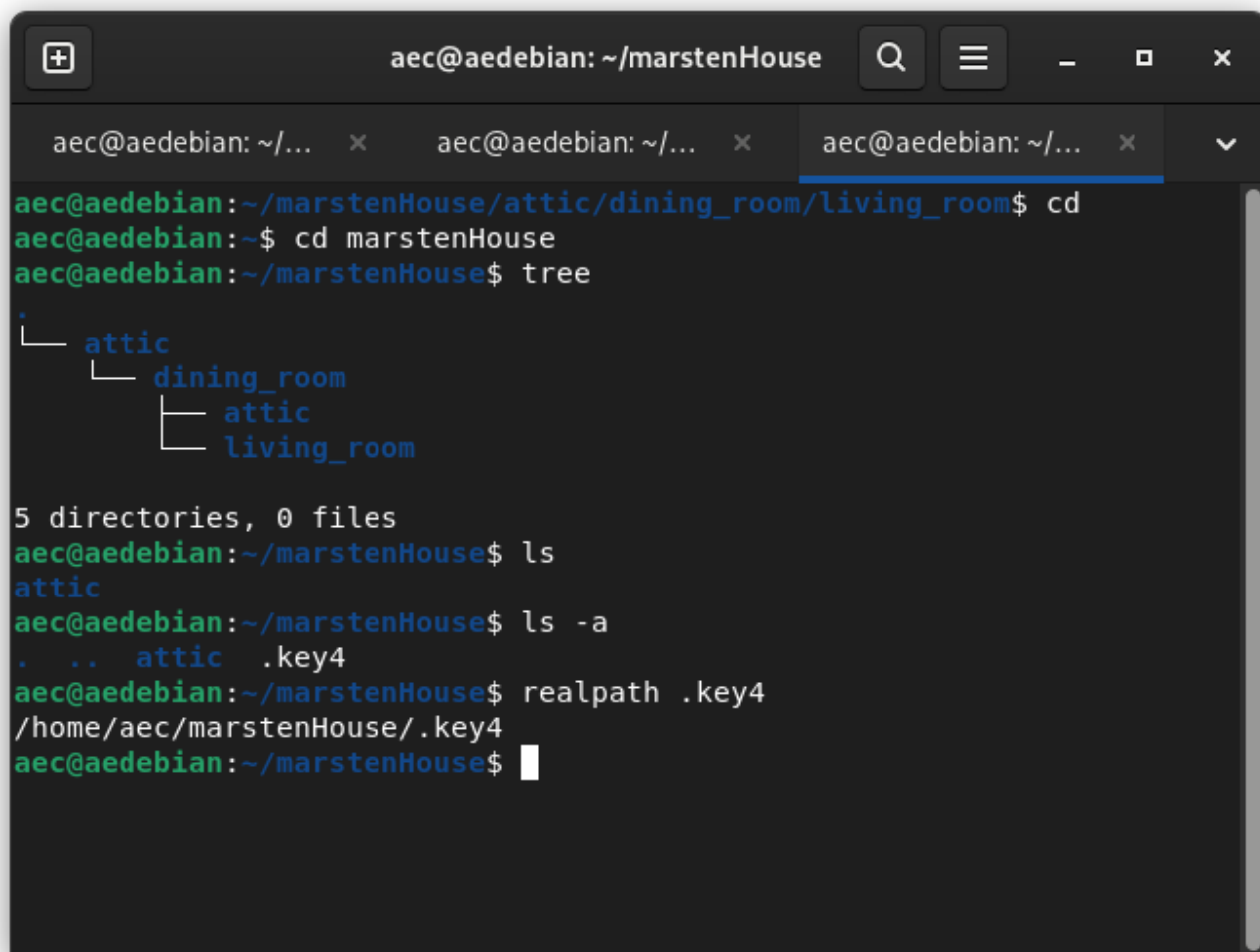
- Challenge Question | MarstenHouse

MarstenHouse tree



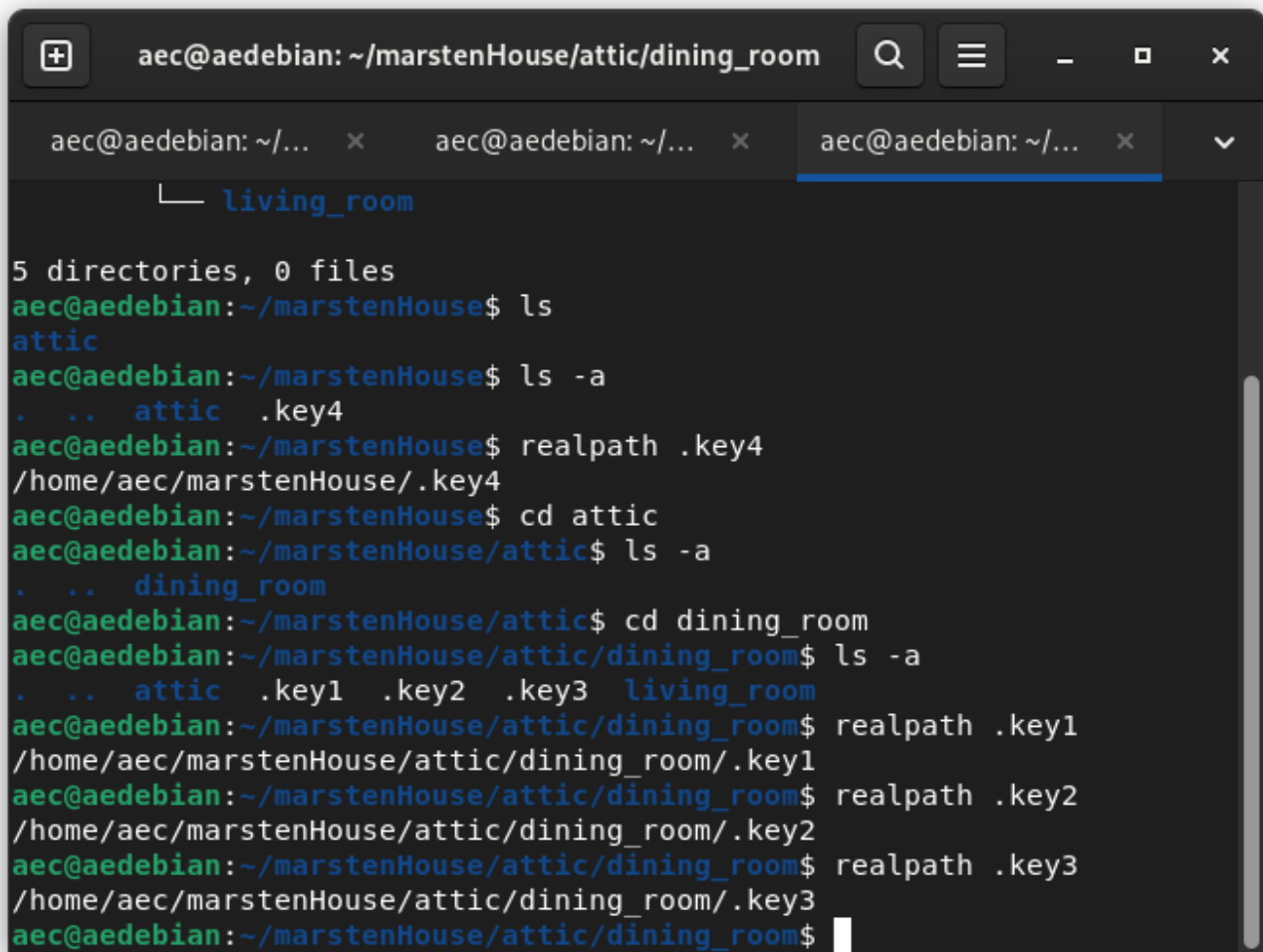
```
aec@aedian: ~/marstenHouse
aec@aedian: ~/... x aec@aedian: ~/... x aec@aedian: ~/... x
aec@aedian:~/marstenHouse/attic/dining_room/living_room$ cd
aec@aedian:~$ cd marstenHouse
aec@aedian:~/marstenHouse$ tree
.
├── attic
│   └── dining_room
│       ├── attic
│       └── living_room
5 directories, 0 files
aec@aedian:~/marstenHouse$
```

Key 4



```
aec@aedian: ~/marstenHouse
aec@aedian: ~/... x aec@aedian: ~/... x aec@aedian: ~/... x
aec@aedian:~/marstenHouse/attic/dining_room/living_room$ cd
aec@aedian:~$ cd marstenHouse
aec@aedian:~/marstenHouse$ tree
.
├── attic
│   └── dining_room
│       ├── attic
│       └── living_room
5 directories, 0 files
aec@aedian:~/marstenHouse$ ls
attic
aec@aedian:~/marstenHouse$ ls -a
.  ..  attic  .key4
aec@aedian:~/marstenHouse$ realpath .key4
/home/aec/marstenHouse/.key4
aec@aedian:~/marstenHouse$
```

Key 3

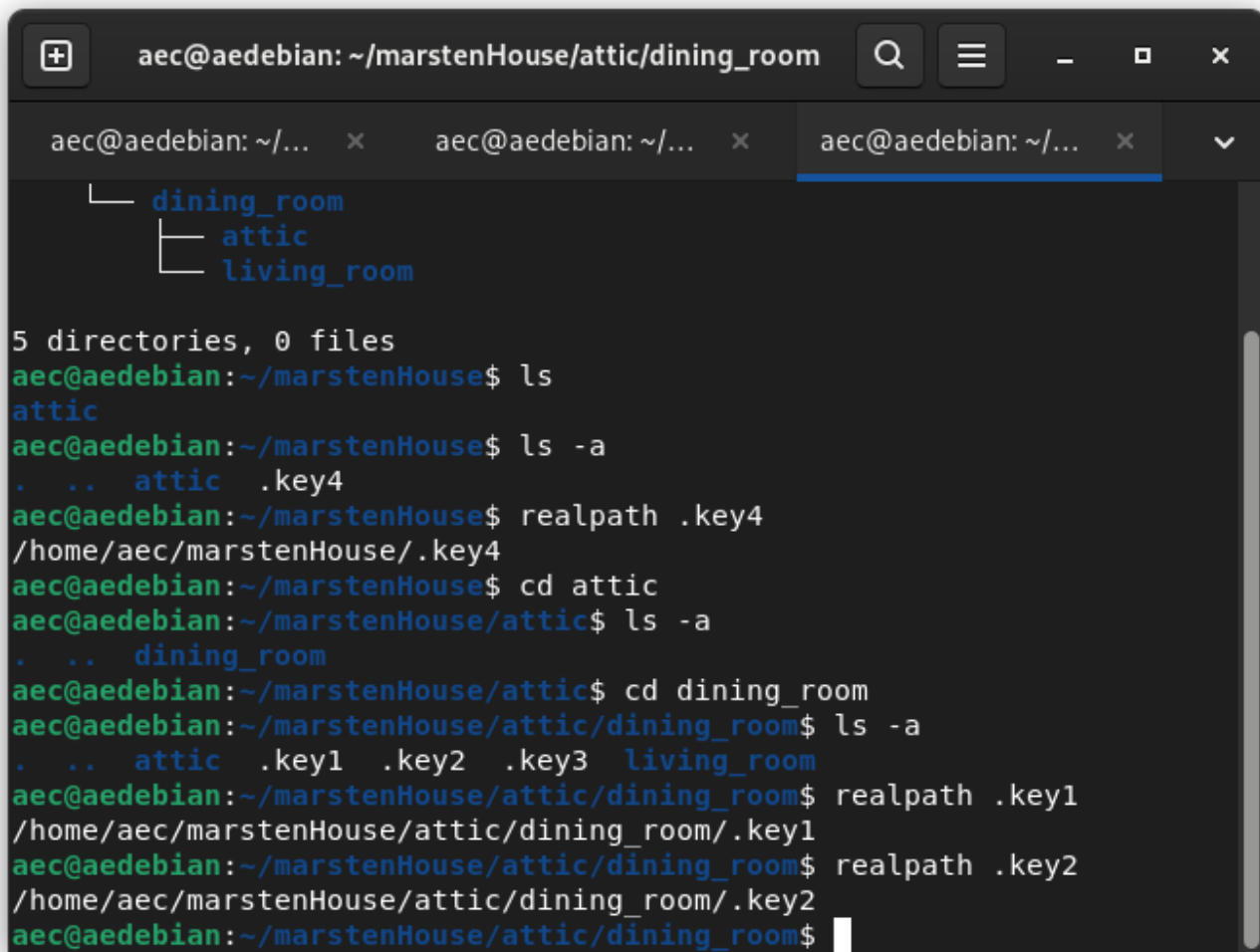


```
aec@aedebian: ~/marstenHouse/attic/dining_room

└─ living_room

5 directories, 0 files
aec@aedebian:~/marstenHouse$ ls
attic
aec@aedebian:~/marstenHouse$ ls -a
.  ..  attic  .key4
aec@aedebian:~/marstenHouse$ realpath .key4
/home/aec/marstenHouse/.key4
aec@aedebian:~/marstenHouse$ cd attic
aec@aedebian:~/marstenHouse/attic$ ls -a
.  ..  dining_room
aec@aedebian:~/marstenHouse/attic$ cd dining_room
aec@aedebian:~/marstenHouse/attic/dining_room$ ls -a
.  ..  attic  .key1  .key2  .key3  living_room
aec@aedebian:~/marstenHouse/attic/dining_room$ realpath .key1
/home/aec/marstenHouse/attic/dining_room/.key1
aec@aedebian:~/marstenHouse/attic/dining_room$ realpath .key2
/home/aec/marstenHouse/attic/dining_room/.key2
aec@aedebian:~/marstenHouse/attic/dining_room$ realpath .key3
/home/aec/marstenHouse/attic/dining_room/.key3
aec@aedebian:~/marstenHouse/attic/dining_room$
```

Key 2

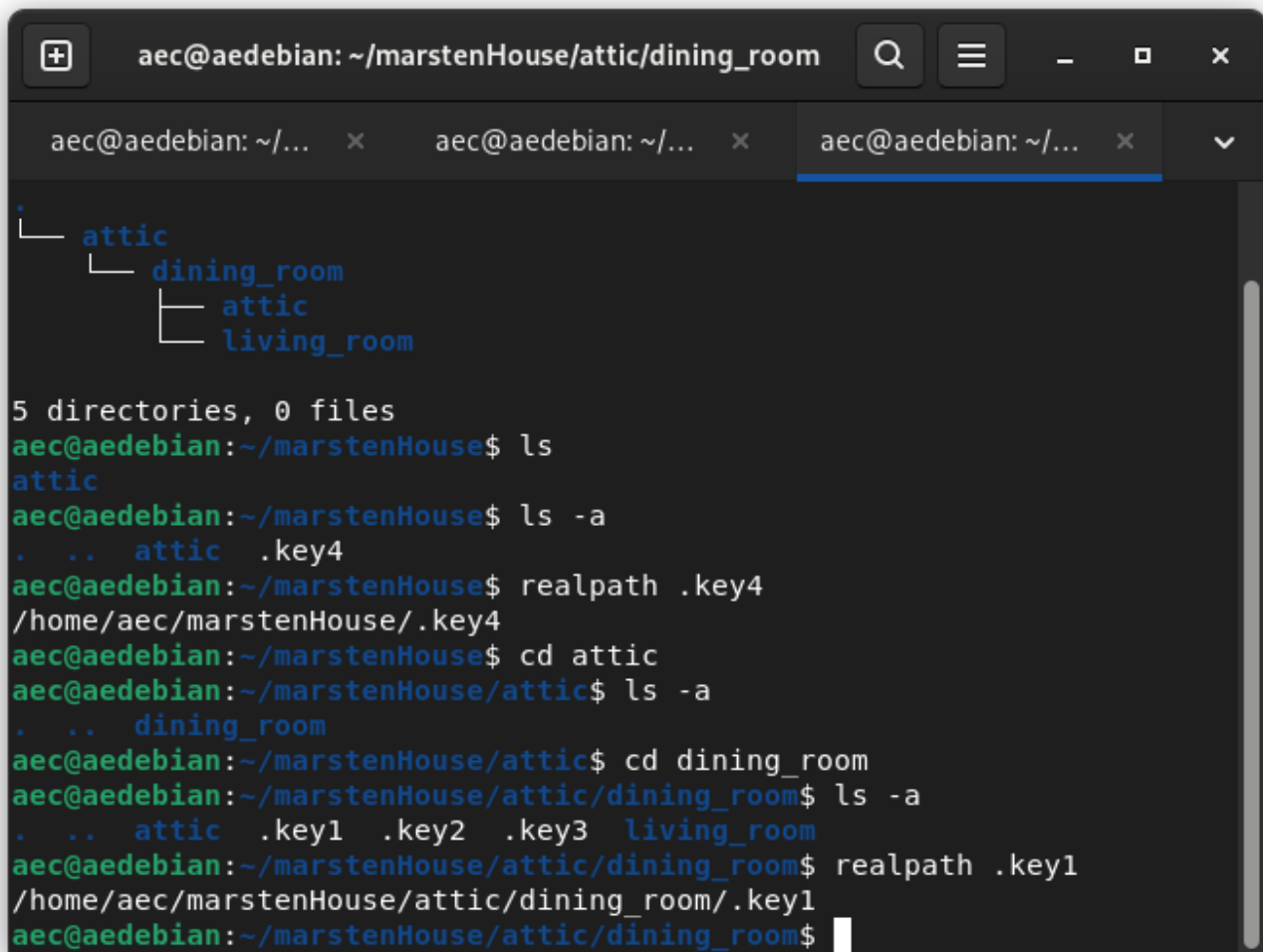


```
aec@aedian: ~/marstenHouse/attic/dining_room

└─ dining_room
   └─ attic
      └─ living_room

5 directories, 0 files
aec@aedian:~/marstenHouse$ ls
attic
aec@aedian:~/marstenHouse$ ls -a
.  ..  attic  .key4
aec@aedian:~/marstenHouse$ realpath .key4
/home/aec/marstenHouse/.key4
aec@aedian:~/marstenHouse$ cd attic
aec@aedian:~/marstenHouse/attic$ ls -a
.  ..  dining_room
aec@aedian:~/marstenHouse/attic$ cd dining_room
aec@aedian:~/marstenHouse/attic/dining_room$ ls -a
.  ..  attic  .key1  .key2  .key3  living_room
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key1
/home/aec/marstenHouse/attic/dining_room/.key1
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key2
/home/aec/marstenHouse/attic/dining_room/.key2
aec@aedian:~/marstenHouse/attic/dining_room$
```

Key 1

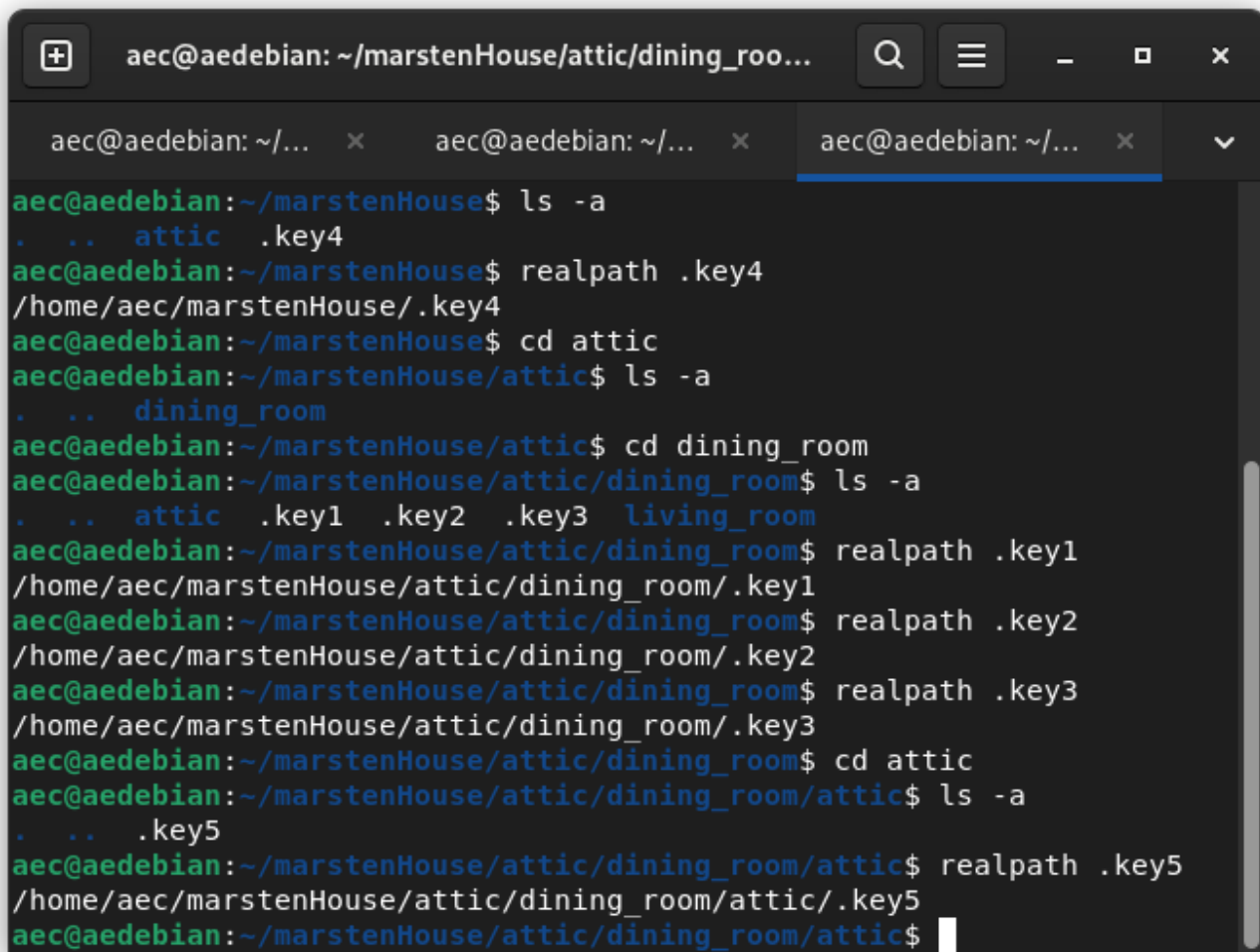


```
aec@aedian: ~/marstenHouse/attic/dining_room

└─ attic
  └─ dining_room
    └─ attic
      └─ living_room

5 directories, 0 files
aec@aedian:~/marstenHouse$ ls
attic
aec@aedian:~/marstenHouse$ ls -a
.  ..  attic  .key4
aec@aedian:~/marstenHouse$ realpath .key4
/home/aec/marstenHouse/.key4
aec@aedian:~/marstenHouse$ cd attic
aec@aedian:~/marstenHouse/attic$ ls -a
.  ..  dining_room
aec@aedian:~/marstenHouse/attic$ cd dining_room
aec@aedian:~/marstenHouse/attic/dining_room$ ls -a
.  ..  attic  .key1  .key2  .key3  living_room
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key1
/home/aec/marstenHouse/attic/dining_room/.key1
aec@aedian:~/marstenHouse/attic/dining_room$
```

Key 5



```
aec@aedian: ~/marstenHouse/attic/dining_roo...
aec@aedian: ~/... x aec@aedian: ~/... x aec@aedian: ~/... x
aec@aedian:~/marstenHouse$ ls -a
.  ..  attic  .key4
aec@aedian:~/marstenHouse$ realpath .key4
/home/aec/marstenHouse/.key4
aec@aedian:~/marstenHouse$ cd attic
aec@aedian:~/marstenHouse/attic$ ls -a
.  ..  dining_room
aec@aedian:~/marstenHouse/attic$ cd dining_room
aec@aedian:~/marstenHouse/attic/dining_room$ ls -a
.  ..  attic  .key1  .key2  .key3  living_room
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key1
/home/aec/marstenHouse/attic/dining_room/.key1
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key2
/home/aec/marstenHouse/attic/dining_room/.key2
aec@aedian:~/marstenHouse/attic/dining_room$ realpath .key3
/home/aec/marstenHouse/attic/dining_room/.key3
aec@aedian:~/marstenHouse/attic/dining_room$ cd attic
aec@aedian:~/marstenHouse/attic/dining_room/attic$ ls -a
.  ..  .key5
aec@aedian:~/marstenHouse/attic/dining_room/attic$ realpath .key5
/home/aec/marstenHouse/attic/dining_room/attic/.key5
aec@aedian:~/marstenHouse/attic/dining_room/attic$
```