FIND TUTORIAL

1) finding files, directories, file contents. No additional installation needed.
2) find file someFile.txt in current directory:
```
#find `pwd` -name '*someFile*'
```
same find in whole computer:
```
#sudo find / -name '*someFile*'
```
3) find directory someDir in current directory:
```
#find `pwd` -type d -name '*someDir*'
```
4) find and delete file (find files first to see what you want to delete!):
```
#find `pwd` -name '*someFile*' -exec rm -rf {} \;
```
5) find files containing string „some” and does not containing „File” in current directory:
```
#find `pwd` -name '*some*' -and -not -name  '*File*'
```
6) find content in file searching directory path:
```
#grep -rnw '/path/to/somewhere/' -e "pattern"
        -r recursive
        -n line number
        -w whole word
```
7) find content in file type (ending with *.cpp and *.hpp) searching directory path:
```
#grep --include=\*.{cpp,hpp} -rnw '/path/to/somewhere/' -e "pattern"
```
8) find content in files recursively in directories and replace with string:
```
#find . -type f -exec sed -i 's/findThisString/ReplaceWithThisString/g' {} +
```
in case of file content is path string value prepend slash:
```
"/home/path/file/content" => "\/home\/path\/file\/content"
```
9) find space characters in filenames and replace it with underline:
```
# find `pwd` -depth -name "* *" -execdir rename 's/ /_/g' "{}" \;
```
10) find file & chmod:
```
# sudo find `pwd` -name ‘*searchForThat*’ -type f | xargs chmod 777
```
11) custom find function in ~/.bashrc file
```
# vim ~/.bashrc
# afind() {
  find `pwd` -name $1
}
#afind *searchForThat*
```
12) find and count results
```
#find `pwd` -name ‘*’ | wc -l
```
13) find and compress results files to archive
```
#tmpPath=`pwd`; 7za a -r -t7z /pathToArchive/archiveName.7z `find $tmpPath -name ‘*searchPattern*’`
```