grep commands

Description: grep searches for PATTERN in each FILE.

Case insensitive search:

```
grep -i "iot" iot_profile.txt
```

Displaying the count of number of matches:

```
grep -c "iot" iot_profile.txt
grep -c -i "iot" iot_profile.txt
```

Display the file names that matches the pattern:

```
grep -l "iot" *
grep -l "linux" i1.txt i2.txt i3.txt
```

Checking for the whole words in a file: (Discarding substring)

```
grep -w "iot" iot_profile.txt
```

Displaying only the matched pattern (Discarding the whole line)

```
grep -o "iot" iot_profile.txt
```

Inverting the pattern match: (lines that doesn't contained the search word in file)

```
grep -v "iot" iot_profile.txt
grep -vn "iot" iot_profile.txt
```

Matching the lines that start with a string: (^"caret"regular expression pattern specifies the start of a line)

```
grep "^iot" iot_profile.txt
```

Matching the lines that end with a string:

```
grep "tomorrow$" iot_profile.txt
```

some more:

```
grep "awesome$" iot_profile.txt
grep -n "awesome$" iot_profile.txt

grep '[a-zA-Z]' {any line with at least one letter}
grep '[^a-zA-Z0-9]  {anything not a letter or number}
grep '[0-9]\{3\}-[0-9]\{4\}'    {999-9999, like phone numbers}
grep '^.$'  {lines with exactly one character}
grep '"smug"'   {'smug' within double quotes}
grep '"*smug"*' {'smug', with or without quotes}
grep '^\.'  {any line that starts with a Period "."}
grep '^\.[a-z][a-z]'    {line start with "." and 2 lc letters}
```

```
grep -v "temp*" temphumi.txt
cat temphumi.txt
grep -v "temp*" temphumi.txt
grep -v "temp*" temphumi.txt > humi.txt
cat humi.txt
grep -v "humi*" temphumi.txt > temp.txt
cat temp.txt
#listing of process run by root user
ps -aux | grep -w "root" > testroot.txt
```

Grep with Regualr Expressions
https://www.digitalocean.com/community/tutorials/using-grep-regular-expressions-to-search-for-text-patterns-in-linux

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