Header ------------------------------------------------------------------

Assignment name: Assignment 2

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Notes:

# Exercise I --------------------------------------------------------------

### Question 1

If you are currently at the home directory, write down the command to go to data directory (one with absolute path, one with relative path)

* Command+annotation
* Screenshots of output

**#see current directory is home**

natal@pal-nat186-143-152 ~ % pwd

/Users/natal

**#cd to data directory using absolute path**

natal@pal-nat186-143-152 ~ % cd /Users/natal/Documents/Purdue/Data\_science\_biol/lab1\_unix/data

**#see that directory has changed to data folder**

natal@pal-nat186-143-152 lab1\_unix % pwd

/Users/natal/Documents/Purdue/Data\_science\_biol/lab1\_unix/data

**#back to home**

cd ~

**#use relative path**

natal@pal-nat186-143-152 ~ % cd ./Documents/Purdue/Data\_science\_biol/lab1\_unix/data

**#directory is now data folder**

natal@pal-nat186-143-152 lab1\_unix % pwd

/Users/natal/Documents/Purdue/Data\_science\_biol/lab1\_unix/data

A screen shot of a computer

Description automatically generated

### Question 2: write down the command to go to miRNA folder and return back.

* Command+annotation
* Screenshots of output

**#see contents of data folder**

natal@pal-nat186-143-152 data % ls

Buzzard2015\_about.txt Gesquiere2011\_data.csv Pacifici2013\_about.txt Saavedra2013\_about.txt

Buzzard2015\_data.csv Marra2014\_about.txt Pacifici2013\_data.csv miRNA

Gesquiere2011\_about.txt Marra2014\_data.fasta Saavedra2013

**#navigate to folder**

natal@pal-nat186-143-152 data % cd miRNA

**#see current directory**

natal@pal-nat186-143-152 miRNA % pwd

/Users/natal/Documents/Purdue/Data\_science\_biol/lab1\_unix/data/miRNA

**#navigate back to data**

natal@pal-nat186-143-152 miRNA % cd ..

**#see now in data**

natal@pal-nat186-143-152 data % pwd

/Users/natal/Documents/Purdue/Data\_science\_biol/lab1\_unix/data

A screen shot of a computer

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# Exercise II --------------------------------------------------------------

### Question 1

Write the command to create an empty file “createEmpty.txt” under the directory of *sandbox*.

* Command+annotation
* Screenshots of output

**#enter sandbox**

natal@pal-nat186-143-152 lab1\_unix % cd sandbox

**#create file**

natal@pal-nat186-143-152 sandbox % touch createEmpty.txt

**#list contents to see that file exists**

natal@pal-nat186-143-152 sandbox % ls

copyThisFolder underscore\_is\_preferred

createEmpty.txt unix names should not contain spaces

test.csv

A black screen with white text

Description automatically generated

### Question 2: list the contents in data/miRNA, and count the number of files in the directory.

* Command+annotation
* Screenshots of output

**#list contents**

natal@pal-nat186-143-152 data % ls

Buzzard2015\_about.txt Gesquiere2011\_data.csv Pacifici2013\_about.txt Saavedra2013\_about.txt

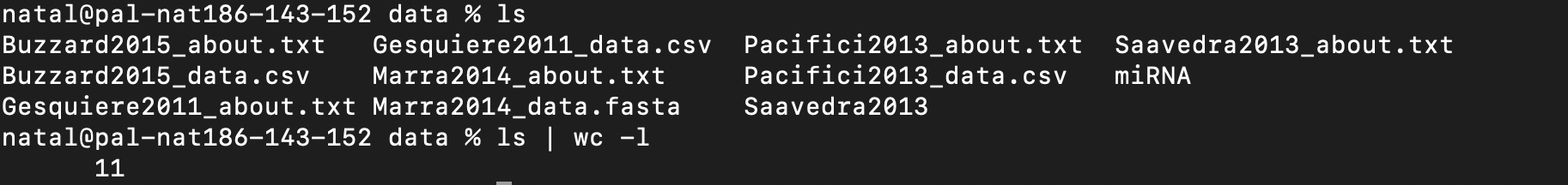
Buzzard2015\_data.csv Marra2014\_about.txt Pacifici2013\_data.csv miRNA

Gesquiere2011\_about.txt Marra2014\_data.fasta Saavedra2013

**#count number of files**

natal@pal-nat186-143-152 data % ls | wc -l

11



# Exercise II --------------------------------------------------------------

### Question 1: List the line counts of all the files under data/Saavedra2013.

* Command+annotation
* Screenshots of output

**#enter directory**

natal@pal-nat186-143-152 data % cd Saavedra2013

**#view files**

natal@pal-nat186-143-152 Saavedra2013 % ls

n1.txt n13.txt n17.txt n20.txt n24.txt n28.txt n31.txt n35.txt n39.txt n42.txt n46.txt n5.txt n53.txt n57.txt n7.txt

n10.txt n14.txt n18.txt n21.txt n25.txt n29.txt n32.txt n36.txt n4.txt n43.txt n47.txt n50.txt n54.txt n58.txt n8.txt

n11.txt n15.txt n19.txt n22.txt n26.txt n3.txt n33.txt n37.txt n40.txt n44.txt n48.txt n51.txt n55.txt n59.txt n9.txt

n12.txt n16.txt n2.txt n23.txt n27.txt n30.txt n34.txt n38.txt n41.txt n45.txt n49.txt n52.txt n56.txt n6.txt

**#count number of lines in each file**

natal@pal-nat186-143-152 Saavedra2013 % wc -l \*.txt

A screenshot of a computer

Description automatically generated

### Question 2: get the first two lines of all the files ending with .csv within data/ directory, and save them to a single file called “headers.csv” under sandbox/.

* Command+annotation
* Screenshots of output

**#go to data folder**

natal@pal-nat186-143-152 lab1\_unix % cd data

**#use head command to get the first 2 lines of each file ending in .csv, the save them**

natal@pal-nat186-143-152 data % head -n 2 \*.csv > ../sandbox/headers.csv

A black screen with white text

Description automatically generated