**Homework 1\_Linux**

**Basic:**

1. Unzip (using the terminal) our titanic.zip file to titanic,

$ Unzip titanic.zip

1. Provide the shape/dimensions of the file train.csv ?

 $ wc –l \*.csv

1. List the first 5 rows of the file. Now list the last 5.

First 5: $ head -n 5 train.csv

Last 5: $ tail –n 5 train.csv

1. Print this file in your screen using cat now use the less command.

$ cat train.csv

$ less train.csv

1. Can you print only the names of all people in the file?
2. Print this file last 5 lines save the output to train\_tail.csv

tail -n 5 train.csv>train\_tail.csv

1. Print only the lines 3 to 5 of the file?

$ head –n 5 train.csv| tail –n 3

1. Can you explain the command du -a . | sort -n -r | head -n 20 and why would  you use it?

Finding the biggest size 20 directories or files sorted in descending order from the biggest size to the smallest size. It would be used to optimize space and finding the folders or files occupying the biggest space.

1. Split the train.csv file in multiple files with 20 lines each.

$ split -l 20 train.csv newfile

**write loops to iterate over lists:**

1. Download the ultratrail-du-montblanc.zip file from Slack and unzip it to /Users/<myusername>/ultratrail

 $ unzip ultratrail-du-montblanc.zip

1. Write a loop that prints the name, dimension and first 2 lines for each of the .csv files.   for datafile in \*.csv

>do

>ls $datafile

> wc -l $datafile

>head -n 2 $datafile | tail -n 1

>done

1. Write a loop that copies each of the .csv files with the prefix bkp- to a folder /Users/<myusername>/ultratrail/backups .

for datafile in \*.csv

>do

>cat $datafile >> $datafile.bkp

>done