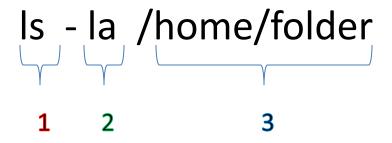
Summary and some tips DAY 1- UNIX

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Unix commands

The general structure of a command



- 1 command
- 2 options
- 3 arguments

- Is :list out whatever has been asked for
- cd :change directory
- . :in the current directory
- cd ../ :get outside from current directory
- cd : to switch between the previous and the current directory
- cd ~ : take you to the home directory
- Is -la: will list all the files with more information

- mkdir: make new directory
- rmdir: remove the directory
 - Pre-requisite: the directory must be empty
- cp : copy files
- mv : move files
 - It operates like Ctrl + X in windows
- rm -r : will remove recursively
 - Use this when you have other folders present in the directory which you want to remove
- cat : concatenate and print
- chmod: used to change the file permissions

- Ctrl + c : to break
- ./filename : to execute a file
- man: kind of a manual for all the linux commands
 - Example : man grep
- top: to see the processes running, memory consumption etc
 - Example: top
- kill: to kill the ongoing process
 - Example: kill pid

- Some example for grep:
 - grep "source" README
 - This command will search the string in README file and list all the lines with the string
 - grep "Source" README
 - This will give no output
 - grep -i "Source" README
 - This will give the output same as the first case
 - grep -n -i "Source" README
 - This will add line numbers in the output

Last Exercise

- Exercise 4:
 - grep "string" -r .

Last Exercise

- Exercise 4:
 - grep "string" -r .
 - This command will search for the string in all the files recursively, but in the current directory (.) and the sub-directories

Day_2

Java Introduction

Opening gedit

- Open gedit via the command line:
 - gedit filename.java &
- Use of "&" is done to make gedit run in background
- In case & is not entered
- Use Ctrl + Z to temporarily stop the gedit from running
- Then type bg from the terminal
- That will make gedit run in background

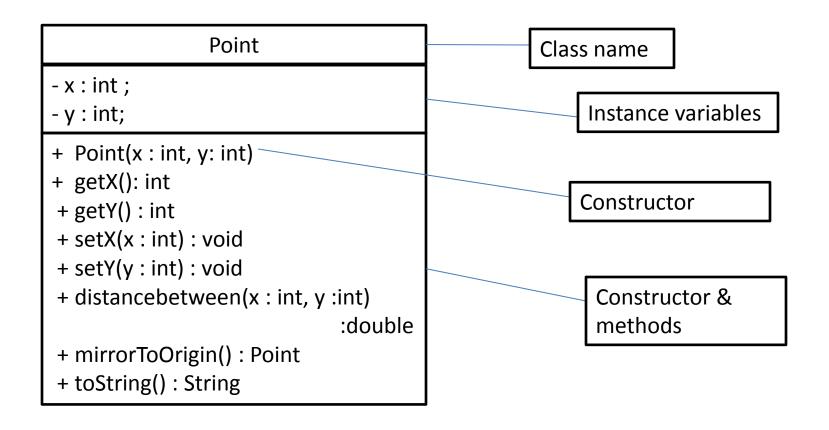
Run java from command line

 Refer the lecture slides on how to compile and run java from command line Day_3

Advanced Java

Classes & Objects

The contents of the Point class are shown in class diagram



Classes & Objects

- In the exercise 2 project understand the implementation first and then try to incorporate your own class named Student which extends the class person
- This class will have two instance variables both of type string
 - University
 - Faculty e.g. Civil Engineering
- Two methods
 - getDetails() : will return an array
 - toString() : will return a String

Create a new class in Netbeans

- Project name
 - Source Packages
 - Exercise_2
- Right click on exercise_2 and choose new -> java class
- Name the java class to student and implement the class

Hints on the task

- Read the comments if you do not understand what has been implemented
- Refer to the implementation of the previous classes and try to write a student class
- Also you can send us an email or discuss the doubts during the rest of the refresher course

Creating a javadoc (optional)

 To create a javadoc it is necessary to write comments as shown in example below

```
/**
* Task 1
*/
```

- After commenting in this fashion in the menu bar on the top select Run-> Generate Javadoc
- If you are using windows netbeans will open a ".html" link in your internet browser
- If it does not open the .html link, you can go to the location where your project is saved and find it in
 - E.g. Exercise_1->dist->javadoc->exercise_1

Creating a javadoc

You can choose any of the .html files and play around

Useful links

- First install Netbeans from here
 - http://www.oracle.com/technetwork/java/javase/ downloads/index.html
- You can refer to following links for java
 - http://docs.oracle.com/javase/tutorial/
 - https://in.udacity.com/course/intro-to-javaprogramming--cs046
- For version control(day 5)
 - https://www.tutorialspoint.com/git/