

# Laboratory exercise 2

# Linux command line

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### Preparation

- You should have Linux Ubuntu 20.04 LTS on your computer either as clean install, dual boot or a virtual machine.
- Install ROS Noetic Ninjemys distribution (Desktop-Full variant), by following the official instructions from the ROS Wiki.
- If Ubuntu and ROS are already installed on your machine, you do not need to reinstall, simply skip this preparation step.

#### Assignments



## Task 1: Files and directories

a) Navigate to the /home/<username>/Desktop directory. Without changing the current directory, inside the /home/<username>/Documents directory create a directory named rps that contains directories lab, lectures and exams, where exams is a hidden directory. Inside of the exams directory create the text file containing the list of contents of your /home/<username> directory sorted by file size (ascending). In the first text box enter the command(s) and in the second box paste the sorted list of contents.

b) Determine the sizes of the largest and smallest files located in the same folder as roscore. In the first text box enter the command(s) and in the second box report the sizes in human-readable format (K, MB etc.).



# Task 2: Searching for files and directories

a) What is the location of the program that gets executed with the roscore command?

b) Use both locate and find to locate the path of file named roscreate-pkg. In the first text box the commands and in the second box enter the obtained path.	enter
c) Find all files inside /opt/ros/noetic which are executable and whose name begins with rqt Storoutput in a file named 3.txt. In the first text box enter the command(s) and in the second box past contents of the 3.txt file.	
Task 3: Searching inside files	
a) List all files within the /home/ <username> directory and its subdirectories that were last modified October. In the first text box enter the command(s) and in the second box paste the output.</username>	ed in
b) In order to determine which Python programs depend on the tf coordinate transform library, find all inside /opt/ros/noetic that contain the string import tf and count them. Store the number of countiles in a file named 4.txt. In the first text box enter the command(s) and in the second box paste contents of the 4.txt file.	intec
Exercise submission	
Upload this pdf file filled with your answers to Moodle.	