**Field Notebook – Vishal Kaushik**

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**Software Practicum I & II**

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The following steps were taken to install a Linux Virtual Machine on my home Desktop:

1. Download Virtual Box from <https://www.virtualbox.org/>
2. Download Ubuntu from <https://www.ubuntu.com/download/desktop/thank-you?country=US&version=18.04.2&architecture=amd64>
3. Before installing ubuntu make sure the Virtualization is enabled by going into BIOS setting of the laptop/PC, otherwise the kernel will not boot up while starting it.
4. Once the Ubuntu is installed , try connecting the virtual machine using an SSH client like “putty”.
5. I faced some issues while trying to connect to Ubuntu using putty even though I was providing the correct connections details , to resolved the issue , I had to run below command to enable any connection to the machine:
6. Run command “ Sudo apt install openssh-server”
7. **Linux command’s cheat sheet**

The following commands are very useful to work on command line

* + - 1. “ls -l” - list with long formats
      2. “top” – The top command allows users to monitor currently running processes
      3. “pwd” – displays present working directory
      4. “mv” – move files or folders from source to destination
      5. “rmdir” – removes the given directory
      6. “chmod” – change the file permissions
      7. “man” – this command shows the manual of the given command and shows its usage and available options
      8. “shutdown” – this command shutdowns the Linux system,
      9. “mkdir” – to make a new directory
      10. “netstat” – displays network status.
      11. “diff” – this command is used to see difference between two files.
      12. “dos2unix” – converts the file created on DOS operating system to Linux format.
      13. “uname” – this command displays the informationabout the system such as kernel name , host name, version
      14. Query SQL database from Qt code
          * <https://doc.qt.io/qt-5/sql-sqlstatements.html>

Connecting Qt to SQL database:

<https://www.codeguru.com/cpp/interfacing-mysql-connectorc-with-the-qt-framework.html>

<https://forum.qt.io/topic/96672/create-a-pdf-from-qt-creator/6>