**Shell Commands:**  
- ls : list files and directories  
- mkdir  
- cat  
- apt  
- dpkg   
- kill  
- lsof  
- netstat  
- service vs systemctl  
- vim vs nano  
- sudo vs normal user  
- sudo su

**Questions**

1. **What is the difference between ‘apt’ and ‘apt-get’?**  
   apt is a subset of apt-get and apt-cache commands providing necessary commands for package management
2. **What is the difference between ‘apt-get update’ and ‘apt-get upgrade’?**

**apt**-**get update updates** the list of available packages and their versions, but it does not **install or upgrade** any packages. **apt**-**get upgrade** actually installs newer versions of the packages you have. After **updating** the lists, the package manager knows about available **updates** for the software you have installed.

**VIM NANO**The big difference is that **vim** is modal and **nano** is not. So with **vim** you are constantly changing between command mode and edit mode. In **nano**, as in emacs, you are in one mode and your commands use special key combinations. As you use the editor more you will start to learn all the most used commands.

**3) How to create a new user in the system?** $sudo useradd username  
 $sudo passwd username

**4) ‘mkdir’ gives an error if the directory is already present, how can you fix it?** $mkdir -p dirname

**5) What is .bashrc?  
 bashrc file** is a script **file** that's executed when a user logs in. The **file** itself contains a series of configurations for the terminal session. This includes setting up or enabling: coloring, completion, shell history, command aliases, and more. It is a hidden **file** and simple ls command won't show the **file**.

**6) How can we list out all the Environment Variables?  
 printenv**

**7) How can we add a new Environment Variable?**$ var="value"  
$ export var

**8) What is shell scripting?**Shell Scripting is a program to write a series of commands for the shell to execute

**References:**

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