Q1. Change umask value permanently

A1. In ubuntu, run the following command-

$ sudo gedit /etc/login.defs

Edit the line referring UMASK, this will set umask to the specified value. Logout and again login for the command to take effect.

Q2. Add a user without using adduser and useradd command

A2.

1. Add entry for user in /etc/passwd file using $ vi /etc/passwd cmd
2. Add entry for the group in /etc/group file using $ vi/etc/group cmd
3. Create home directory for the added user
4. Set the new user’s password using the passwd command

Q3. Can we change the umask value to 0888. If yes, then how. If no, then why?

A3. No, we cannot change umask value to 0888 as by default, the value of read is 4, write is 2 and execute is 1. All three add upto number 7. So the max permissions can be 777. If we put umask as 0888 then after subtracting to get the permissions the numbers will go into negative.

Q4. How to add a new user with unique user id(e.g. 1345) and check out the unique id of that user.

A4. We can create a user with unique id using the option -u with useradd cmd.

Eg- $ useradd -u 1345 username

We can find the user id by using the following command-

$ id -u username

Q5. How to change group of any folder.

A5. To change the group ownership of a file or directory invoke the chgrp command followed by the new group name and the target file as arguments.

Eg- $ chgrp newgroup foldername

Use -f option if running the cmd with unprivileged user

Q5a. Check the group name of the files present in the folder.

A5a. This can be done by using the following cmd-

$ ls -l filename

Q5b. Change the group of the folder and the files present in the same folder using a single command

A5b. To perform the above mentioned task, -R option is used with chgrp command. This will change groups recursively.

Eg- $ chgrp -R newgroup foldername

When the recursive option is specified chgrp will not traverse the symbolic links and will make no changes to the symlinks. To change the group ownership of the symbolic links, -h option is passed.