

## OS1 Lab 3.2

### Linux Command Line Review Exercises

# Sample Solutions

#### File Permission Exercises

In this section, you will complete exercises to create a file and modify the file's permissions.

1. Create a new file called **text.txt** using the touch command .
2. What are the permissions of the file **text.txt**?

**Answer:**

`-rw-r--r--`

Please complete the following exercises to change the permissions of the file **text.txt** using the command sequence `chmod mode filename` where mode is created by concatenating characters from *who*, *opcode* and *permission*. Please write the commands you used as your

**Answer:**

1. Allow the owner of the file to read, write and execute the file and deny access to everyone else.

**Answer:**

```
$ chmod u+wx,go-r test.txt
OR
$ chmod u=rwx,go= test.txt
```

2. Allow the group to read and execute the file and deny access to everyone else.

**Answer:**

```
$ chmod g+rx,u-rwx test.txt
OR
$ chmod uo=,g=rx test.txt
```

3. Allow the world to read and write to the file and grant group read access and deny the owner any access to the file.

**Answer:**

```
$ chmod o+rw,g-x test.txt
OR
$ chmod u=,g=r,o=rw test.txt
```

Please complete the following exercises to change the permissions of the file **text.txt** using the command sequence `chmod octal-mode filename` where *octal-mode* is created by concatenating three digits from 0 to 7 inclusive. Please write the commands you used as your **Answer**:

1. Allow the owner of the file to read, write and execute the file and deny access to everyone else.

**Answer:**

```
$ chmod 700 test.txt
```

2. Allow the group to read and execute the file and deny access to everyone else.

**Answer:**

```
$ chmod 050 test.txt
```

3. Allow the world to read and write to the file and grant group read access and deny the owner any access to the file.

**Answer:**

```
$ chmod 046 test.txt
```