

## Exercise: Basic Linux & Bash commands

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On Hyper-V/Oracle/VMware (whatever your preferred Linux workaround is currently) download Ubuntu image and install it as a virtual machine or WSL2. After this is done:

1. Create a file friends.txt with a list of names of three of your friends on separate lines.

```
cat > friends.txt
```

Then we write the names and we save the files using CTRL + D

2. Display the contents of friends.txt on the console.

```
cat friends.txt
```

```
Goran
```

```
Zoran
```

```
Dragan
```

3. Rename file friends.txt to bestfriends.txt

```
mv friends.txt bestfriends.txt
```

4. Make a copy of bestfriends.txt under the name sysadmins.txt

```
cp bestfriends.txt sysadmins.txt
```

5. List all files whose name begins with letter 'b' and ends with extension txt.

```
ls -l b*.txt
```

6. Write a command that will tell you how many bytes are taken up by file sysadmins.txt

```
ls -l sysadmins.txt
```

```
-rw-r--r-- 1 dejan dejan 19 Mar  2 14:49 sysadmins.txt
```

The file size is 19 bytes.

7. Create file cars.txt with a list of 5 brands of cars on separate lines.

We can do it with **cat > cars.txt** write the brands in separate lines and CTRL + D to save the file or we can do it with

```
echo -e "Mercedes\nAudi\nFerrari\nFord\nNissan" > cars.txt
```

8. Check how many bytes are taken up by the file.

```
ls -l cars.txt
```

```
-rw-r--r-- 1 dejan dejan 33 Mar  2 15:19 cars.txt
```

The file size is 33 bytes.

9. Copy the file cars.txt into directory /tmp

```
cp cars.txt /tmp/
```

10. List all files with extension \*.txt in directory /tmp and verify that the file was copied properly.

```
ls -l *.txt
```

```
-rw-r--r-- 1 dejan dejan 33 Mar 2 15:30 cars.txt
```

11. Without leaving your home directory rename file cars.txt located in /tmp to vehicles.txt in /tmp

```
mv /tmp/cars.txt /tmp/vehicles.txt
```

12. Display the contents of /etc/passwd file on the screen interactively (so you can search, scroll up and down)

```
less /etc/passwd
```