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## Tugas 2

### Praktikum SKJ

#### Assignment 3.1

##### 1. uname

```
radit@radit-virtual-machine:~$ uname  
Linux
```

##### 2. df

```
radit@radit-virtual-machine:~$ df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
tmpfs           588232      1444    586788   1% /run  
/dev/sda3       40453376 13638708  24727552  36% /  
tmpfs           2941148      0    2941148   0% /dev/shm  
tmpfs           5120         4      5116   1% /run/lock  
/dev/sda2       524252      6220    518032   2% /boot/efi  
tmpfs           588228      100    588128   1% /run/user/1000  
/dev/sr0        2995344 2995344      0 100% /media/radit/Linux Mint 21.3 Cinnamon 64-bit
```

##### 3. hostname

```
radit@radit-virtual-machine:~$ hostname  
radit-virtual-machine
```

##### 4. hostname -i

```
radit@radit-virtual-machine:~/Documents/Coding$ hostname -i  
127.0.1.1
```

1. save the trace for echo hello to the file titled echo.log

2. Filter the `echo.log` file to find text “hello” being mentioned

3. Explain what system call related to text in question number 2 is doing based on the manual page of the system call

```
execve("/usr/bin/echo", ["echo", "hello"], 0x7ffdbc30e118 /* 55 vars */) = 0
```

This line is using **execve** system call. The **execve** system call is used to execute a program. It is replacing the current process image with a new image. Also, there are some arguments like “usr/bin/echo” which is the path to the echo executed, “[“echo”, “hello”]” the first element is the command name and the second element is the argument, and also there is a pointer and return value (0).

```
write(1, "hello\n", 6) = 6
```

This line is using **write** system call. The write system call is used to write data to file descriptor. And there are some arguments like “hello\n” which the string being stdout and “6” is indicating number bytes to write because “hello\n” is 6 bytes long, 5 char plus newline. Also it has return value 6 indicates 6 bytes successfully written to stdout.