## **Laboratory Assignment 2**

## On

# Design Principles of Operating System (CSE 3249)

### Submitted by

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**Branch** : Computer Science & Engineering

**Section** : 2241044

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# Assignment 2: Familiarization with basic Commands in Unix Operating System and Shell Programming

#### **Objective of this Assignment:**

• To learn basic concepts of shell programming

ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$

• To lean concept of command line argument in shell script.

#### **Observation:**

2:

ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ cat > a.txt

1
2
^C
ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ cat > b.txt

1
3
4
^C
ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ cat > b.txt

5
6
^C
ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ cat > c.txt

5
6
1
1
1



ejdotp@Belzeebub: ~/DOS\_2241016309/DOSAss2 ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ gedit systeminfo.sh ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ chmod u+x systeminfo chmod: cannot access 'systeminfo': No such file or directory ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ chmod u+x systeminfo.sh ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ systeminfo.sh systeminfo.sh: command not found ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ alias systeminfo='/home/ejdotp/DOS\_2241016 309/DOSAss2/systeminfo.sh' ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ systeminfo Login Name: ejdotp UNIX System Name: Linux SHELL Name: /bin/bash PATH: /home/ejdotp/DOS\_2241016309/DOSAss2 Total Files: a.txt b.txt c.txt prog.sh result.txt systeminfo.sh ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$

3:

```
*dtcal.sh
-/DOS_2241016309/DOSAss2

Save = - - ×

1#!/bin/bash
2 echo "Date: `date`"
3 echo -e "Calender: \n`cal march 2022`"

sh > Tab Width: 4 > Ln 3, Col 37 INS
```

4:

5: ejdotp@Belzeebub: ~/DOS\_2241016309/DOSAss2 ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ gedit nvwc2.sh ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ chmod u+x nvwc2.sh ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ ./nvwc2.sh dtcal.sh Filename linecount wordcount charcount dtcal.sh 3 10 ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ 1#!/bin/bash 2 echo -e "Filename\tlinecount\t wordcount\tcharcount" 3 echo -e "\$1\t\t`wc -l < \$1`\t\t`wc -w < \$1`\t\t`wc -c < \$1`"</pre> 6: ejdotp@Belzeebub: ~/DOS\_2241016309/DOSAss2 ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ gedit darg.sh ejdotp@Belzeebub:~/DOS 2241016309/DOSAss2\$ bash darg.sh 10 20 30 1st argument: 10 2nd argument: 20 all arguments: 10 20 30 Total arguments: 3 ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ darg.sh

ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2 Q = \_ \_ \_ x

ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ gedit ndisp.sh
ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ chmod u+x ndisp.sh
ejdotp@Belzeebub:~/DOS\_2241016309/DOSAss2\$ ./ndisp.sh 2 3 darg.sh
Filename: darg.sh

First 2 lines:
#!/bin/nash
echo "1st argument: \$1"

Last 3 lines:
echo "all arguments: \$@"
echo "Total arguments: \$#"

Total no. of lines: 6