

ASSIGNMENT 1 – SHELL SCRIPTING

Q1.

SOLUTION 1) Use nano command

```
subhashis@subhashis-virtual-machine
subhashis@subhashis-virtual-machine:~$ nano test.sh
```

Feed the necessary information according to the question

```
GNU nano 6.2
#!/bin/bash
mkdir -p Test/Test1/Test2
mkdir -p Test/Test1/Test3
touch Test/file.txt
cp Test/file.txt Test/Test1/Test2/
cp Test/file.txt Test/Test1/Test3/
rm -r Test/Test1/Test2
echo "Done"
```

Use ctrl+x ,click y then click enter, then use bash command

```
subhashis@subhashis-virtual-machine:~$ nano test.sh
subhashis@subhashis-virtual-machine:~$ ls
Desktop  Documents  Downloads  Music  nano.4737.save  Pictures  Public  shell  snap  Templates  Test  test.sh  Videos
subhashis@subhashis-virtual-machine:~$ bash test.sh
Done
subhashis@subhashis-virtual-machine:~$ ls
Desktop  Documents  Downloads  Music  nano.4737.save  Pictures  Public  shell  snap  Templates  Test  test.sh  Videos
```

Q2.

SOLUTION 1) again use nano command

```
subhashis@subhashis-virtual-machine:~$ nano systeminfo.sh
```

Feed the necessary information according to the question

```
GNU nano 6.2
#!/bin/bash

# Create file named Systeminfo
touch Systeminfo

# Check available storage in the system
storage=$(df -h | awk 'NR==2{print $3}')

# Check available memory (RAM) in the system
memory=$(free -m | awk 'NR==2{print $4}')

# Check the operating system
os=$(uname)

# Put all the information in the file
echo "Available storage: $storage" >> Systeminfo
echo "Available memory (RAM): $memory MB" >> Systeminfo
echo "Operating system: $os" >> Systeminfo

# Print the contents of the file
cat Systeminfo
```

Use ctrl+x ,click y then click enter, then use bash command

```
subhashis@subhashis-virtual-machine:~$ nano systemInfo.sh
subhashis@subhashis-virtual-machine:~$ ls
Desktop  Documents  Downloads  Music  nano.4737.save  Pictures  Public  shell  snap  systemInfo.sh  Templates  Test  test.sh  Videos
subhashis@subhashis-virtual-machine:~$ bash systemInfo.sh
Available storage: 2.1M
Available memory (RAM): 9179 MB
Operating system: Linux
```