COSC 350 System Software: Mini Test #1

1. for i in \$(seq 1 100); do echo \$i >>numbs; done

2.

- \$@: all list of arguments
- \$*: all list of arguments
- \$0: shell script name
- \$#: number of argument passed

3.

- a. We need provide location of bash sell. If location of bash is /bin/bash, first line of each script must start with #!/bin/bash.
- b. Since a shell script is a ASCII code, it is created as r w _ r _ r _ r _ . We need to change it to executable by changing mode.

chmod +x filename.sh

4.

- **Static library:** if a process include a static library, then each copy of static library need to be loaded for each process.
- **Shared library:** only one copy of a shared library need to be loaded into the memory. It is shared by multiple active processes.

5.

```
#!/bin/sh
n=1
sum=0

for n in $*;
do
    let sum=sum+$n
done
echo "Sum of Arguments is $sum"
exit 0
```

6.

echo vari **vari**

• echo "\$vari" How are you?

• echo '\$vari' **\$vari**

• echo \\$vari \$vari

• echo \\$\$vari \$How are you?

7.

```
#!/bin/bash
# calculate factorial for a number

n=0
on=0
fact=1
echo -n "Enter number to find factorial : "
read n
on=$n
while [ $n -ge 1 ]
do
   let fact=fact*n
   let n--
done
echo "Factorial for $on is $fact"
exit 0
```

8.

```
#!/bin/sh
# directory.sh
# this shell display subdirectory in the current directory

for FILE in *
do
    if [ -d $FILE ]; then
        echo $FILE
    fi
done
exit 0
```

9.

```
#!/bin/bash
echo " Give an integer value. "
read num

for i in $(seq 1 $num);
do
    for j in $(seq 1 $i);
    do
        echo -n "$i"
    done
    echo ""
done
echo ""
```

10.

Is -I | less: output of Is -I will be input for less command Is -I > less: output of Is -I will be saved in file name "less"