EX:8 BASH SCRIPTS

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```
#!/bin/bash
read -p "Enter A Number: " x
rev=0
while [ $x -gt 0 ]
do
	let rev*=10
	let rev+=$x%10
	let x/=10
done
echo "Reverse is $rev"
```

```
gml30:Shell Scripts cse30$ ./rev.sh
Enter A Number: 34
Reverse is 43
```

```
exec 2>/dev/null
echo "Number of Sub-Directories: "
ls -d */|wc -l
echo "Number of Files: "
ls -d *.*|wc -l
```

```
gml30:Shell Scripts cse30$ ./dir.sh
Number of Sub-Directories:
	0
Number of Files:
	2
```

```
exec 2>/dev/null
echo "Number of .txt Files: "
ls -d *.txt|wc -l
echo "Number of .sh Files: "
ls -d *.sh|wc -l
echo "Number of .c Files: "
ls -d *.c|wc -l
echo "Number of Other Files: "
ls *.*|grep -v .txt|grep -v .c|grep -v .sh|wc -l
```

```
gml30:Shell Scripts cse30$ chmod u+x count.sh
gml30:Shell Scripts cse30$ ./count.sh
Number of .txt Files:
	0
Number of .sh Files:
	3
Number of .c Files:
	0
Number of Other Files:
	0
```

```
grep -c "$2" $1
```

```
gml30:Shell Scripts cse30$ chmod u+x occur.sh
gml30:Shell Scripts cse30$ ./occur.sh count.sh Files
4
```

```
#!/bin/bash
echo "Enter Num1:"
read a
echo "Enter Num2:"
read b
select var in add sub mul div
do
	case $var in
		add)
			echo $(( a+b ));;

		sub)
			echo $(( a-b ));;

		mul)
			echo $(( a*b ));;

		div)
			echo $(( a/b ));;
	esac
done
```

```
(base) vishakan@legion:~/Desktop$ ./calc.sh
Enter Num1:
4
Enter Num2:
5
1) add
2) sub
3) mul
4) div
#? 1
9
#? 2
-1
#? 3
20
#? 4
0
#? ^Z
```

```
#!/bin/bash
read -p "Enter A Variable: " x
if [[ $x =~ ^[+-]?[0-9]*$ ]];then
        echo “Variable is an Integer”
elif [[ $x =~ ^[+-]?[0-9]+\.?[0-9]*$ ]];then
        echo “Variable is a Float”
elif [[ $x =~ ^[a-zA-Z0-9]*$ ]];then
        echo "Variable is a String"
else
        echo “Try Once More”
fi
```

```
(base) vishakan@legion:~/Desktop$ ./vartype.sh
Enter A Variable: 19
“Variable is an Integer”
(base) vishakan@legion:~/Desktop$ ./vartype.sh
Enter A Variable: 23.3
“Variable is a Float”
(base) vishakan@legion:~/Desktop$ ./vartype.sh
Enter A Variable: string
Variable is a String
```

```
#!/bin/bash
read -p "Enter Your Password: " pwd
plen=$(echo ${#pwd})
if [[ $plen -ge 8 ]];then
	if [[ $pwd =~ ^[A-Za-z0-9]*$ ]];then
		if [[ ( $pwd =~ [A-Z] ) && ( $pwd =~ [a-z] ) ]];then
			echo "Password is Strong"
		else
			echo "Password is Weak"
		fi
	else
		echo "Password is Weak"
	fi
else
	echo "Password is Weak"
fi
```

```
(base) vishakan@legion:~/Desktop/Semester III/Lab/Unix/Bash Scripts$ ./password.sh
Enter Your Password: 123456789
Password is Weak
(base) vishakan@legion:~/Desktop/Semester III/Lab/Unix/Bash Scripts$ ./password.sh
Enter Your Password: 12AbAjf3l
Password is Strong
```