BCA-3

SCS291: Linux and Shell Programming Lab

Linux shell scripts	echo "Enter the number of terms:"
	read n
a) Factorial of Numbers	a=0
#!/bin/bash	b=1
echo "Enter a number:"	echo "Fibonacci series:"
read num	for ((i=0; i <n; i++))<="" th=""></n;>
fact=1	do
for ((i=1; i<=num; i++))	echo -n "\$a "
do	fn=\$((a + b))
fact=\$((fact * i))	a=\$b
done	b=\$fn
echo "Factorial of \$num is \$fact"	done
	echo
b) Even/Odd Numbers	
#!/bin/bash	d) Prime Numbers
echo "Enter a number:"	#!/bin/bash
read num	echo "Enter a number:"
if ((num % 2 == 0))	read num
then	is_prime=1
echo "\$num is Even"	for ((i=2; i*i<=num; i++))
else	do
echo "\$num is Odd"	if ((num % i == 0))
fi	then
	is_prime=0
c) Fibonacci Series	break
#!/bin/bash	fi

```
done
if ((num > 1 && is_prime == 1))
then
 echo "$num is a Prime number"
else
                                                g) Lower Case to Upper Case
 echo "$num is not a Prime number"
                                               #!/bin/bash
fi
                                               echo "Enter a string:"
                                               read str
                                               echo "Upper case: ${str^^}"
e) Arrange Numbers
#!/bin/bash
echo "Enter numbers separated by
                                                h) Greatest of Three Numbers
space:"
                                               #!/bin/bash
read -a arr
                                               echo "Enter three numbers:"
sorted=($(echo ${arr[@]} | tr ' ' \n' | sort -
                                               read a b c
n))
                                               if ((a > b \&\& a > c))
echo "Sorted Numbers: ${sorted[@]}"
                                               then
                                                echo "$a is the greatest"
f) Reverse a Number
                                               elif((b > c))
#!/bin/bash
                                               then
echo "Enter a number:"
                                                echo "$b is the greatest"
read num
                                               else
rev=0
                                                echo "$c is the greatest"
while [$num -gt 0]
                                               fi
do
 rem=$((num % 10))
 rev=$((rev * 10 + rem))
 num=$((num / 10))
done
echo "Reversed number is $rev"
```