


Week 4

1) Shell script to Print the Combination of numbers 123

```
#!/bin/sh
for i in 123
do
    for j in 123
    for k in 123
    echo $i$j$k
    done
done
done
```

output



```
1 1 1 2 3 2
1 1 2 2 3 3
1 1 3 3 1 1
1 2 1 3 1 2
1 2 2 3 1 3
1 2 3 3 2 1
1 3 1 3 2 2
1 3 2 3 2 3
1 3 3 3 3 1
2 1 1 3 3 2
2 1 2 3 3 3
2 1 3
2 2 1
2 2 2
2 2 3
2 3 1
```

2) shell script to display Pass class a student.

```
#!/bin/sh
echo "Enter your marks"
read marks
if [ $marks -le 40 ]
then
echo "fail"
elif [ $marks -ge 40 ] then
echo "Pass"
elif [ $marks -ge 40 ] && [ $marks -le 59 ]
then
echo "result: second class"
elif [ $marks -ge 60 ] && [ $marks -le 85 ]
then
echo "result: first class"
else
then
echo "result: distinction"
fi
```

Output:

Enter your marks:

80

First class

3) Shell Script to find fibonacci series up to n":

```
# ! /bin/bash
echo "Enter the end limit"
read n
n1=0
n2=0
echo "$n1 $n2 \c"
while [ $n -gt 2 ]
do
    num = $(( $n2 + $n1 ))
    echo "$num \c"
    n1 = $n2
    n2 = $num
    n = $(( $n - 1 ))
done
```

4) Shell Script to find GCD & LCM

```
# ! /bin/bash
echo "Enter two numbers"
read m
read n
temp = $(( $m + $n ))
while [ $m -ne $n ]
do
    if [ $m -gt $n ]
    then
        m = $(( $m - $n ))
    else
        n = $(( $m - $n ))
    fi
done
```

```

5)  g:
    done
    echo "GCD = $n"
    echo "LCM = $LCM"

```

Output

10

20

GCD = 10

LCM = 20

```

5)  #!/bin/bash
    for i in {1..4}
    do
        grep -l "$i" $f
    done

```

Sh grep "bin" ged.sh fib.sh a!.txt

Output

ged.sh

fib.sh

Lee
13/12/22