classmate
Date 6/12/22.
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week 5: Shell Script Programs

1. Write a shell script to print the combinations of numbers 1 2 3.

→ nano comb.sh

```
#!/bin/bash
echo "Combinations for 123:"
for i in 1 2 3
do
for j in 1 2 3
do
for k in 1 2 3
do
echo $i $j $k
done
done
done
```

OUTPUT:

```
111 131 221 311 331
113 132 222 312 332
113 133 223 313 333
121 211 231 321
122 212 232 322
123 213 233 323
```

2. Write a shell script to find the fibonacci series upto n.

→ nano fib.sh

```
#!/bin/bash
echo "enter the number"
read n
a=0
b=1
count=2
echo "Fibonacci series"
echo $a
echo $b
while [ $count -le $n ]
do
```

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```
fib = 'expr $a + $b'
a = $b
b = $fib
echo $fib
count = 'expr $count + 1'
done
```

OUTPUT: Enter the number 10 0 1 1 2 3 5 8 13

3. write a shell script to find GCD and LCM.

→ name gcdlcm.h

⇒ #!/bin/bash

```
read m n
echo "To find GCD and LCM"
echo " given two numbers are"
echo "m = $m and n = $n"
temp = 'expr $m \* $n'
while [ $m != $n ]
do
if [ $m -gt $n ]
then
m = 'expr $m - $n'
else
n = 'expr $n - $m'
fi
done
echo GCD = $n
lcm = 'expr $temp / $n'
echo LCM = $lcm.
```

OUTPUT:

Enter two integers

2 4

To find GCD and LCM

Given two numbers are
m=2 and n=4
GCD = 2
LCM = 4.

4. Write a shell script to display pass class of a student.

→ nano pass.sh

=) #!/bin/bash
echo "enter your marks"
read marks
if [$ marks -lt 40]
then
echo "fail"
elif [$ marks -ge 40]
then
echo "pass"
elif [$ marks -ge 40] && [$ marks -lt 59]
then
echo "result : Second class"
elif [$ marks -ge 60] && [$ marks -lt 85]
then
echo "result : First class"
elif [$ marks -gt 85]
then
echo "result : distinction"
fi

OUTPUT : Enter your marks
84
Pass.

5. Write a shell program to give multiple file names as argument & search pattern in file.

→ nano multiple.sh

```
#!/bin/bash
for f in $1 $2 $3 $4
do
grep -l "$1" $f
done
```

OUTPUT:

```
sh grep.sh "bin" gcd.sh fib.sh q.txt
gcd.sh
fib.sh.
```

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