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Batch: CSE-O2



A terminal window titled 'aryan@LAPTOP-S5BAGLQR: ~' with standard window controls. The terminal displays a shell script and its output. The script is a loop that iterates over all files in the current directory, checking if each is a directory and printing its name if it is. The output shows 19 files, all of which are directories, listed in a single column.

```
#!/bin/bash
for i in *
do
if [ -d $i ]
then
echo $i
fi
done
```

1,9 All

aryan@LAPTOP-S5BAGLQR: ~

aryan@LAPTOP-S5BAGLQR:~\$ vi p1.sh

aryan@LAPTOP-S5BAGLQR:~\$ chmod ugo+x p1.sh

aryan@LAPTOP-S5BAGLQR:~\$ ./p1.sh

aryan@LAPTOP-S5BAGLQR:~\$

aryan@LAPTOP-S5BAGLQR: ~

#!/bin/bash

echo "Enter file name"

read fname

if [ -x \$fname ]

then

echo "Yes \$fname has Execute permission"

else

echo "No \$fname has no Execute permission"

fi

10,0-1

All

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p2.sh  
Enter file name  
aryan  
No aryan has no Execute permission  
aryan@LAPTOP-S5BAGLQR:~$
```

aryan@LAPTOP-S5BAGLQR: ~

#!/bin/bash

```
hour=$( date | cut -c 12-13 )  
if [ $date -ge 0 -a $hour -le 11 ]  
then  
echo " Good Morning "  
elif [ $hour -le 17 ]  
then  
echo " Good Afternoon "  
else  
echo " Good evening "  
fi
```

13,0-1

All

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p2.sh  
Enter file name  
aryan  
No aryan has no Execute permission  
aryan@LAPTOP-S5BAGLQR:~$ vi p3.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p3.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p3.sh  
./p3.sh: line 4: [: too many arguments  
Good Afternoon  
aryan@LAPTOP-S5BAGLQR:~$
```

aryan@LAPTOP-S5BAGLQR: ~

#1/bin/bush

```
echo " Enter type of loan "  
read fname  
case $fname in  
"personallone") echo " Currently on offer for personal loan"  
;;  
"carloan") echo "Currentlty best offer is 7% "  
;;  
"houseingloan") echo "Currently best offer is 8%"  
;;  
"card") echo "contact branch"  
;;  
"bye") echo "see you later"  
;;  
*) echo "Cannot understand you"  
esac
```

-- INSERT --

18,1

All

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p1.sh  
aryan@LAPTOP-S5BAGLQR:~$ vi p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p2.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p2.sh  
Enter file name  
aryan  
No aryan has no Execute permission  
aryan@LAPTOP-S5BAGLQR:~$ vi p3.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p3.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p3.sh  
./p3.sh: line 4: [: too many arguments  
Good Afternoon  
aryan@LAPTOP-S5BAGLQR:~$ vi p4.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x p4.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./p4.sh  
Enter type of loan  
card  
contact branch  
aryan@LAPTOP-S5BAGLQR:~$
```



aryan@LAPTOP-S5BAGLQR: ~

```
echo "Enter the number"
```

```
read n
```

```
function ams
```

```
{  
    t=$n  
    s=0  
    b=0  
    c=10  
    while [ $n -gt $b ]  
    do  
        r=$((n % c))  
        i=$((r * r * r))  
        s=$((s + i))  
        n=$((n / c))  
    done  
    echo $s  
    if [ $s == $t ]  
    then  
        echo "Armstrong number"  
    else  
        echo "Not an Armstrong number"  
    fi  
}
```

```
result=`ams $n`
```

```
echo "$result"
```

-- INSERT --

25,15

All

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./qss5.sh  
-bash: ./qss5.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs.sh  
-bash: ./qs.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs5.sh  
Enter the number  
370  
370  
Armstrong number  
aryan@LAPTOP-S5BAGLQR:~$
```

aryan@LAPTOP-S5BAGLQR: ~

#!/bin/bash

echo " Enter the number"

read n

r=0

s=0

while [ \$r -le \$n ]

do

    i=\$((r-1))

    while [ \$i -ge \$s ]

    do

        echo -ne "\$i"

        i=\$((i-1))

    done

    echo

    r=\$((r+1))

done

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./qss5.sh  
-bash: ./qss5.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs.sh  
-bash: ./qs.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs5.sh  
Enter the number  
370  
370  
Armstrong number  
aryan@LAPTOP-S5BAGLQR:~$ vi q6.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x q6.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./q6.sh  
Enter the number  
4  
4  
0  
10  
210  
3210  
aryan@LAPTOP-S5BAGLQR:~$
```

— 10 —

[illegible]

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x qs5.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./qss5.sh  
-bash: ./qss5.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs.sh  
-bash: ./qs.sh: No such file or directory  
aryan@LAPTOP-S5BAGLQR:~$ ./qs5.sh  
Enter the number  
370  
370  
Armstrong number  
aryan@LAPTOP-S5BAGLQR:~$ vi q6.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x q6.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./q6.sh  
Enter the number  
4  
4  
0  
10  
210  
3210  
aryan@LAPTOP-S5BAGLQR:~$ vi q7.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x q7.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./q7.sh  
Enter day no  
4  
Day 1 : Mon Weekday  
Day 2 : Tue Weekday  
Day 3 : Wed Weekday  
Day 4 : Thu Weekday  
Day 5 : Fri Weekday  
Day 6 : Sat Weekend  
Day 7 : Sun Weekend  
aryan@LAPTOP-S5BAGLQR:~$
```



```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi q8.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x q8.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./q8.sh  
File 1 : /etc/*  
aryan@LAPTOP-S5BAGLQR:~$
```



aryan@LAPTOP-S5BAGLQR: ~

#!/bin/bash

echo Enter a starting value

read x

echo Enter a Ending value

read y

for(( no=x;no<=y;no++ ))

do

    i=1

    ans=0

    while [ \$i -le `expr \$no / 2` ]

    do

        if [ `expr \$no % \$i` -eq 0 ]

        then

            ans=`expr \$ans + \$i`

        fi

        i=`expr \$i + 1`

    done

    if [ \$no -eq \$ans ]

    then

        echo \$no

    fi

done

-- INSERT --

24,1

All

```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi q9.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x q9.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./q9.sh  
Enter a starting value  
1  
Enter a Ending value  
100  
6  
28  
aryan@LAPTOP-S5BAGLQR:~$
```

aryan@LAPTOP-S5BAGLQR: ~

#!/bin/bash

if [ \$# != 0 ];

then

len=`echo \$# | wc -c`

len=`expr \$len - 1`

rev=""

while test \$len -gt 0

do

rev1=`echo \$# | cut -c\$len`

rev=\$rev\$rev1

len=`expr \$len - 1`

done

echo \$rev

fi

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```
aryan@LAPTOP-S5BAGLQR: ~  
aryan@LAPTOP-S5BAGLQR:~$ vi qs10.sh  
aryan@LAPTOP-S5BAGLQR:~$ chmod ugo+x qs10.sh  
aryan@LAPTOP-S5BAGLQR:~$ ./qs10.sh Aryan Malhotra  
urtoh1aM nayrA  
aryan@LAPTOP-S5BAGLQR:~$
```