

1. SS to check for a pattern starting with 'a' and ending with 'y' in a specific file

```
echo "Enter file name"
read f1
grep "a.*y" $f1
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx$ ./pat_AY_file.sh
Enter file name
pat_AY
abhnnhhuy
annnnjjjy
```

2. SS to cut specific columns of a specific file

```
echo -n "Enter file: "
read f1
echo -n "Enter column No.: "
read num
echo "Result is : "
cut -d " " -f $num $f1
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx$ ./cut.sh
Enter file: TimeFile.txt
Enter column No.: 3
Result is :
very
to
```

3. SS to concatenate two files and display the concatenated file

```
echo -n "Enter first file : "
read f1
echo -n "Enter second file : "
read f2
echo -n "Enter name for concatenated file : "
read f3
echo "-----"
echo "First file is : "
cat $f1
echo "-----"
echo "Second file is : "
cat $f2
echo "-----"
echo "Concatenated file is : "
cat $f1 $f2 > $f3
cat $f3
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx$ ./concat.sh
Enter first file : states
Enter second file : student
Enter name for concatenated file : studstate
-----
First file is :
Arunachal Pradesh
```

Assam
Bihar
Chhattisgarh

Second file is :

Anu
Blessy Babu
Arya Mary
Binu Mol

Concatenated file is :

Arunachal Pradesh

Assam
Bihar
Chhattisgarh
Anu
Blessy Babu
Arya Mary
Binu Mol

4. SS to replace word 'ann' with 'meera' in a particular file

```
echo -n "Enter the file : "  
read f1  
echo "File content before replacing the word ann : "  
cat $f1  
echo "-----"  
echo "File content after replacing the word ann : "  
sed 's/ann/meera/g' $f1
```

Output

bless@bless:~/Blessy/College/Sem4/lx\$./replace.sh

Enter the file : student

File content before replacing the word ann :

ann
Blessy Babu
Arya Mary
Binu Mol

File content after replacing the word ann :

meera
Blessy Babu
Arya Mary
Binu Mol

5. SS to display calendar of any year. Year accepted from keyword.

```
echo -n "Enter Year : "  
read y  
echo "Calender of $y is :"  
cal $y
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx$ ./dis_cal.sh  
Enter Year : 2019  
Calender of 2019 is :  
  
                2019  
    January      February      March  
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa  
      1  2  3  4  5          1  2          1  2  
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    3  4  5  6  7  8  9  
13 14 15 16 17 18 19   10 11 12 13 14 15 16   10 11 12 13 14 15 16  
20 21 22 23 24 25 26   17 18 19 20 21 22 23   17 18 19 20 21 22 23  
27 28 29 30 31        24 25 26 27 28        24 25 26 27 28 29 30  
                               31  
  
    April        May          June  
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa  
      1  2  3  4  5  6          1  2  3  4          1  
  7  8  9 10 11 12 13    5  6  7  8  9 10 11    2  3  4  5  6  7  8  
14 15 16 17 18 19 20   12 13 14 15 16 17 18    9 10 11 12 13 14 15  
21 22 23 24 25 26 27   19 20 21 22 23 24 25   16 17 18 19 20 21 22  
28 29 30        26 27 28 29 30 31        23 24 25 26 27 28 29  
                               30  
  
    July        August       September  
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa  
      1  2  3  4  5  6          1  2  3          1  2  3  4  5  6  7  
  7  8  9 10 11 12 13    4  5  6  7  8  9 10    8  9 10 11 12 13 14  
14 15 16 17 18 19 20   11 12 13 14 15 16 17   15 16 17 18 19 20 21  
21 22 23 24 25 26 27   18 19 20 21 22 23 24   22 23 24 25 26 27 28  
28 29 30 31        25 26 27 28 29 30 31   29 30  
  
    October     November     December  
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa  
      1  2  3  4  5          1  2          1  2  3  4  5  6  7  
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    8  9 10 11 12 13 14  
13 14 15 16 17 18 19   10 11 12 13 14 15 16   15 16 17 18 19 20 21  
20 21 22 23 24 25 26   17 18 19 20 21 22 23   22 23 24 25 26 27 28  
27 28 29 30 31        24 25 26 27 28 29 30   29 30 31
```

6. SP to calculate GCD of two numbers

```
echo "enter large number: "  
read a  
echo "enter smaller number:"  
read b  
a1=$a  
b1=$b  
r=$b  
while [ $r -ne 0 ]
```

```
do
r=$((a % b))
a=$b
b=$r
done
echo "gcd of $a1 , $b1 = $a"
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx/prgms$ ./gcd.sh
enter large number:
48
enter smaller number:
32
gcd of 48 , 32 = 16
```

7. SP to find whether a number is armstrong or not

```
echo -n "Enter 3 digit number : "
read num
s=0
num1=$num
while [ $num -gt 0 ]
do
l=$((num%10))
i=$((l*l*l))
s=$((s+i))
num=$((num/10))
done
echo $s
if [ $s -eq $num ]
then
echo "Armstrong Number"
else
echo "Not an armstrong number"
fi
```

Output

```
bless@bless:~/Blessy/College/Sem4/lx/prgms$ ./arm.sh
Enter 3 digit number : 153
153
Armstrong Number
```

8. SP to find whether a number is palindrom or not

```
echo "Enter Number : "
read num
t=$num
rev=0
while [ $num -ne 0 ]
do
r=$((num%10))
rev=$((rev*10+$r))
num=$((num/10))
done
echo "Reverse of the Number is : $rev"
```

```
if [ $t -eq $rev ]
then
echo "$t is palindrome"
else
echo "$t is not a palindrome"
fi
```

Output

```
bles@bles:~/Blessy/College/Sem4/lx/prgms$ ./pali.sh
Enter Number :
121
Reverse of the Number is : 121
121 is palindrome
```

9. SP to print pattern

```
echo -n "Enter number of rows : "
read n
echo " "
str="*"
i=1
while [ $i -le $n ]
do
echo "$str"
str="$str *"
i=$(( i+1 ))
done
```

Output

```
bles@bles:~/Blessy/College/Sem4/lx/prgms$ ./pat2.sh
Enter number of rows : 4

*
* *
* * *
* * * *
```