

```

1 #!/bin/bash
2
3 #make directory of result if not present
4 if [ ! -d "Result" ]
5 then
6     mkdir "Result"
7 fi
8
9 #read filee
10 while IFS=' ' read -r line
11 do
12     read -r x y ops <<< $line
13
14 #use switch case
15 case "$ops" in
16     "xor")
17         result=$(echo "Result of xor $x $y : $((x ^ y))")
18         ;;
19     "product")
20         result=$(echo "Result of product $x $y : $((x * y)) ")
21         ;;
22     "compare")
23         if [ "$x" -gt "$y" ]
24         then
25             result=$(echo "result of compare $x $y : $x ")
26         elif [ "$y" -gt "$x" ]
27         then
28             result=$(echo "result of compare $x $y : $y ")
29         else
30             result=$(echo "both are equal $x $y" )
31         fi
32         ;;
33     *)
34         result=$(echo "this is invalid operation $ops or may be invalid number $x $y")
35         echo "this is invalid operation $ops or may be invalid number $x $y"
36     esac
37
38     echo "$result" >> "Result/output.txt"
39 done < "input.txt"
40
41
42

```

In the above code first will create a result directory(if not make the result directory) for the output.txt file store . .and use IFS(internal field separator) for use as a word separator .

And read line as x value y value and operation

And use switch statement

And check operation xor , product ,compare

If xor then result variable store value xor of x and y

Similarly for product and compare

In compare use if elif else for check greater then (-gt)

Equal to (-eq) and store value in result

And if use other than xor product and compare show error

And write result in result/output.txt file and if everything is ok if not then comes error both place terminal and output.txt file (this is invalid operation or may be invalid number)