

Lab Practical 7 Submission

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Course Code and Name: 2CSOE53 OS

Aim:

- a) Write a shell script to keep on accepting lines of text and write the text into a data file until the user inputs "end". The script should count the number of lines input and display them.
- b) Write a shell script to print the reverse of an input number.

code:

a)

```
1 file="/home/nirma/Downloads/exp_7"
2 count=0
3 > $file
4 echo "Enter line of text: "
5
6 while true; do
7     read line
8     if [ "$line" == "end" ]; then
9         break
10    fi
11    echo "$line" >> "$file"
12    count=$((count + 1))
13 done
14 echo "Number of lines input: $count"
15
```

input:

```
Enter line of text:
exp
os
exam
end
Number of lines input: 3
```

output:

```
1 exp
2 os
3 exam
```

b)

Code:

```
1 #!/bin/bash
2
3 # Read the input number
4 echo "Enter a number:"
5 read num
6
7 # Initialize a variable to store the reversed number
8 reverse=0
9
10 # Reverse the number using a loop
11 while [ $num -gt 0 ]
12 do
13     # Extract the last digit of the number
14     last_digit=$((num % 10))
15
16     # Add the last digit to the reverse
17     reverse=$((reverse * 10 + last_digit))
18
19     # Remove the last digit from the number
20     num=$((num / 10))
21 done
22
23 # Print the reversed number
24 echo "Reversed number: $reverse"
```

output:

```
Enter a number:
1234
Reversed number: 4321
```