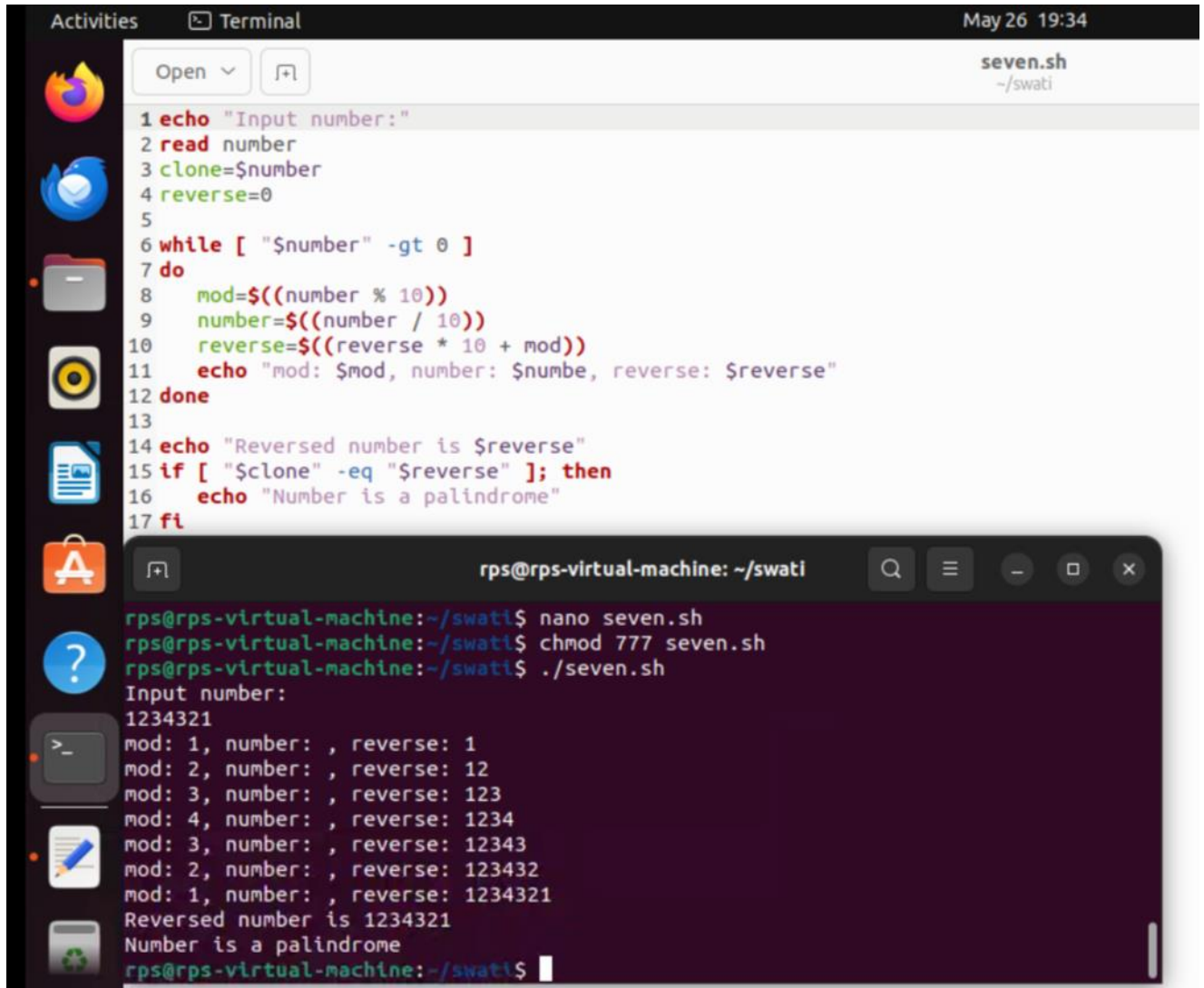


Assignment – 7

✚ Check whether the number is palindrome or not.

Solution :



The screenshot shows a Linux desktop environment with a terminal window open. The terminal displays a shell script named `seven.sh` and its execution output. The script takes an input number and checks if it is a palindrome by reversing its digits. The output shows the number 1234321 being reversed to 1234321, confirming it is a palindrome.

```
Activities Terminal May 26 19:34
seven.sh
~/swati

1 echo "Input number:"
2 read number
3 clone=$number
4 reverse=0
5
6 while [ "$number" -gt 0 ]
7 do
8     mod=$((number % 10))
9     number=$((number / 10))
10    reverse=$((reverse * 10 + mod))
11    echo "mod: $mod, number: $number, reverse: $reverse"
12 done
13
14 echo "Reversed number is $reverse"
15 if [ "$clone" -eq "$reverse" ]; then
16     echo "Number is a palindrome"
17 fi

rps@rps-virtual-machine: ~/swati
rps@rps-virtual-machine:~/swati$ nano seven.sh
rps@rps-virtual-machine:~/swati$ chmod 777 seven.sh
rps@rps-virtual-machine:~/swati$ ./seven.sh
Input number:
1234321
mod: 1, number: , reverse: 1
mod: 2, number: , reverse: 12
mod: 3, number: , reverse: 123
mod: 4, number: , reverse: 1234
mod: 3, number: , reverse: 12343
mod: 2, number: , reverse: 123432
mod: 1, number: , reverse: 1234321
Reversed number is 1234321
Number is a palindrome
rps@rps-virtual-machine:~/swati$
```