

Assignment 7

check weather the number is palindrom or not.

```
#!/bin/bash
echo "Enter a number: "
read number

reverse=0
original=$number

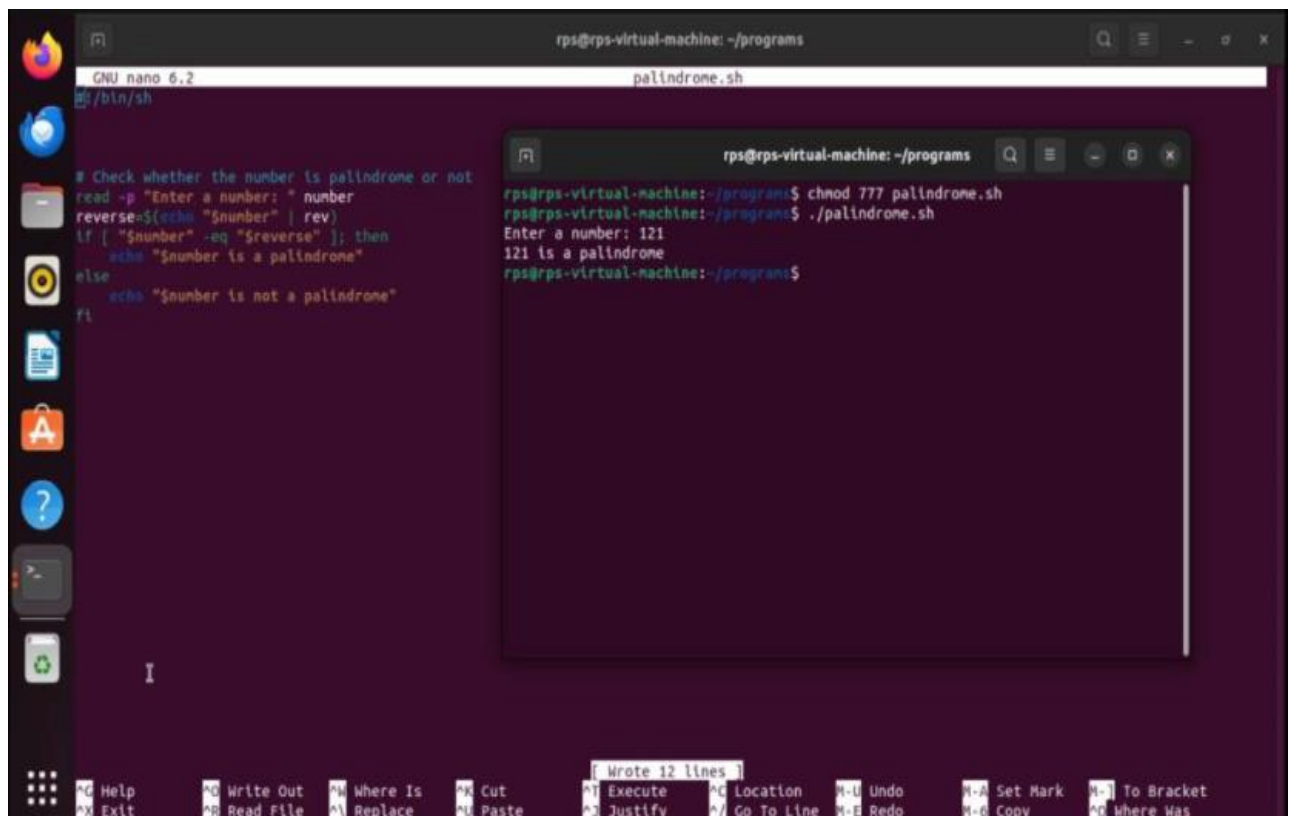
while [ "$number" -ne 0 ]; do
    remainder=$((number % 10))
    reverse=$((reverse * 10 + remainder))
    number=$((number / 10))
done

if [ "$original" -eq "$reverse" ]; then
    echo "$original is a palindrome."
else
    echo "$original is NOT a palindrome."
Fi
```

Output:

Enter a number :121

121 is palindrom



The screenshot shows a Linux desktop environment with a dark theme. On the left is a vertical dock with icons for Firefox, a mail client, a file manager, a terminal, and a system monitor. The main workspace contains two windows. The top window is a terminal running GNU nano 6.2, editing a file named `palindrome.sh`. The script is a shell script that checks if a number is a palindrome. The bottom window is a terminal running the `palindrome.sh` script, which prompts the user to enter a number, and the user has entered `121`, resulting in the output `121 is a palindrome`. The bottom of the screen features a menu bar with various options like Help, Exit, Write Out, Read File, Where Is, Replace, Cut, Paste, Execute, Justify, Location, Go To Line, Undo, Redo, Set Mark, Copy, To Bracket, and Where Was.

```
GNU nano 6.2 palindrome.sh
#!/bin/sh

# Check whether the number is palindrome or not
read -p "Enter a number: " number
reverse=$(echo "$number" | rev)
if [ "$number" -eq "$reverse" ]; then
    echo "$number is a palindrome"
else
    echo "$number is not a palindrome"
fi
```

```
rps@rps-virtual-machine: ~/programs
rps@rps-virtual-machine:~/programs$ chmod 777 palindrome.sh
rps@rps-virtual-machine:~/programs$ ./palindrome.sh
Enter a number: 121
121 is a palindrome
rps@rps-virtual-machine:~/programs$
```

Wrote 12 lines

Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket
Exit Read File Replace Paste Justify Go To Line Redo Copy Where Was