**Operating System mini project**

**(10 marks)**

✓ **Task 1**

Write a shell script that computes the gross salary of an employee according to the following.

1) if basic salary is <1500 then HRA 10% of the basic and DA =90% of the basic

2) if basic salary is >1500 then HRA 500 and DA =98% of the basic  
The basic salary is entered interactively through the key board.

echo "Enter the Basic Salary:"

read basic\_salary

if [ $basic\_salary -lt 1500 ]

then gross\_salary=$((basic\_salary+((basic\_salary/100)\*10)+(basic\_salary/100)\*90)) echo "The gross salary : $gross\_salary"

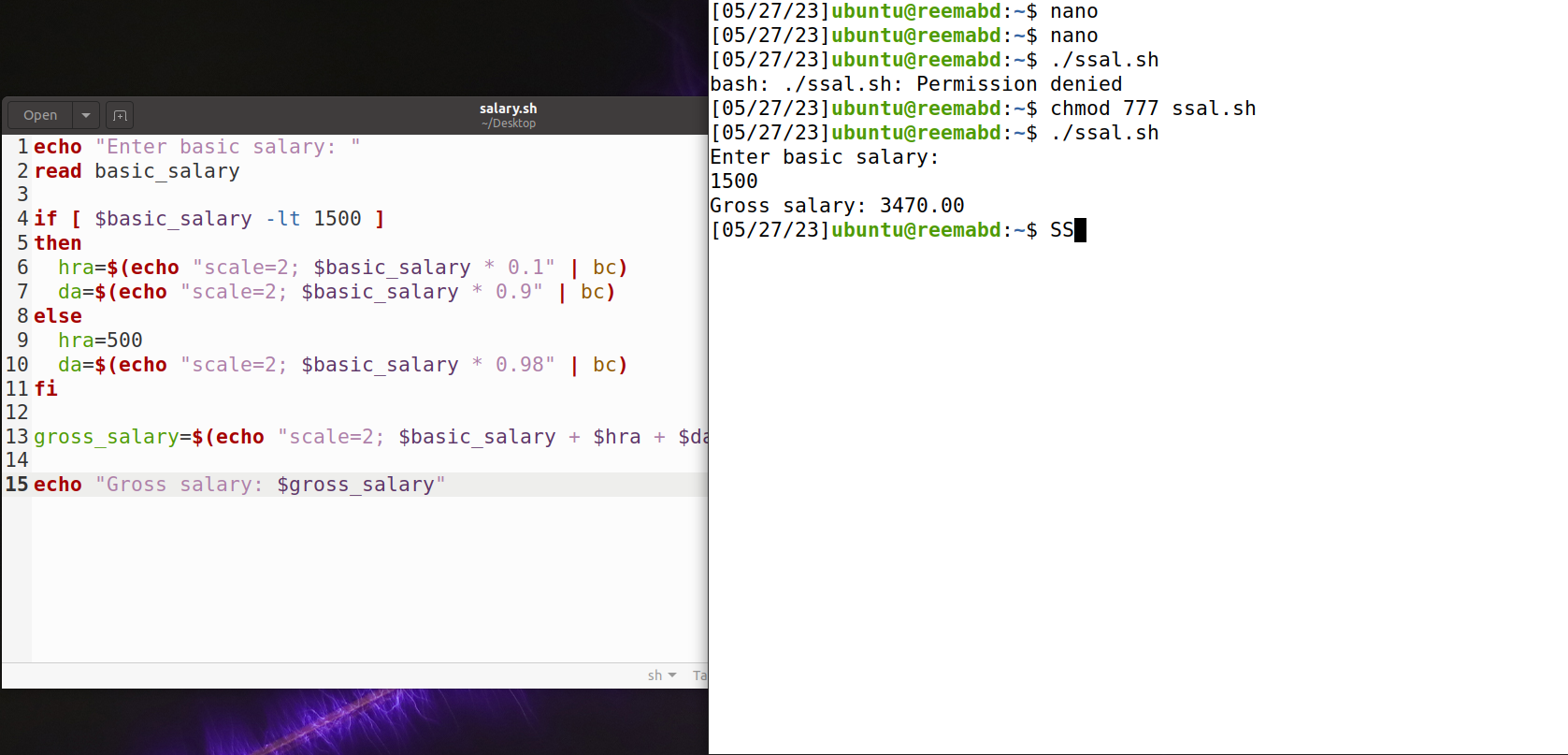
fi

if [ $basic\_salary -ge 1500 ]

then gross\_salary=$(((basic\_salary+500)+(basic\_salary/100)\*98))

echo "the gross salary : $gross\_salary"

fi



✓ **Task 2**Write a script to determine whether a year is leap or not.

echo -n "Enter year (YYYY): "

read y

a = 'expr $y%4'

b = 'expr $y%100'

c = 'expr $y%400'

if [$a -eq 0 -a $b -ne 0 -o $c -eq 0]

then

echo "$y is leap year"

else

echo "$y is not a leap year"

fi

