***Experiment No.7***

***A.I.M*** -: Write a shell scrip Program for Bubble Sort in Descending Order.

***Source Code*** -:

echo

i=1

k=1

echo "Enter no. of integers to be sorted"

read n

echo

echo "Enter the numbers"

while [ $i -le $n ]

do

read num

x[$k]=`expr $num`

i=`expr $i + 1`

k=`expr $k + 1`

done

x[$k]=0

k=1

echo

echo "The number you have entered are"

while [ ${x[$k]} -ne 0 ]

do

echo "${x[$k]}"

echo

k=`expr $k + 1`

done

k=1

while [ $k -le $n ]

do

j=1

while [ $j -lt $n ]

do

y=`expr $j + 1`

if [ ${x[$j]} -lt ${x[$y]} ]

then

temp=`expr ${x[$j]}`

x[$j]=`expr ${x[$y]}`

x[$y]=`expr $temp`

fi

j=`expr $j + 1`

done

k=`expr $k + 1`

done

k=1

echo

echo "Number in sorted order..."

echo

while [ ${x[$k]} -ne 0 ]

do

echo "${x[$k]}"

echo

k=`expr $k + 1`

done

***Output*** - :

