NAME – KAUSHAL OZA ROLL – 40, DIV – A SRN – 201900754

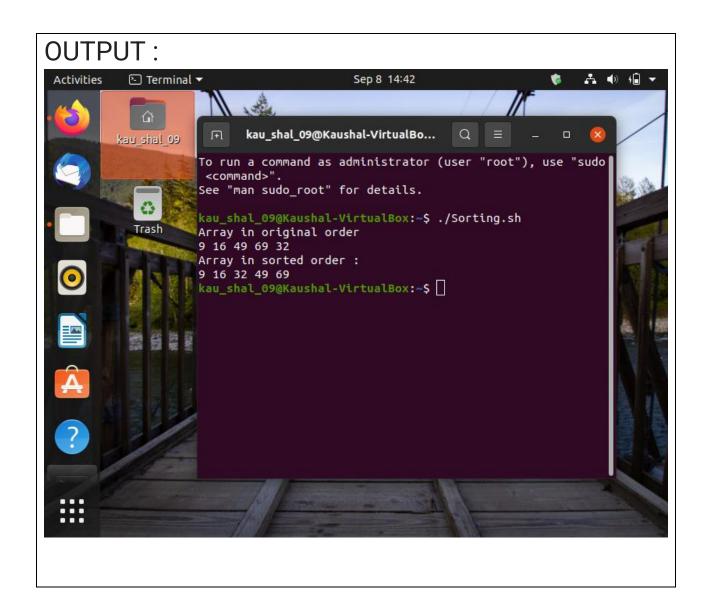
## OS ASSIGNMENT – 2

Q1) Write a shell program to sort an array of numbers using bubble sort.

```
→#! /bin/bash
arr=(9 16 49 69 32)
```

echo "Array in original order" echo \${arr[\*]}

```
if [ ${arr[j]} -gt ${arr[$((j+1))]} ]
         then
             temp=${arr[j]}
             arr[$j]=${arr[$((j+1))]}
             arr[$((j+1))]=$temp
         fi
    done
done
echo "Array in sorted order:"
echo ${arr[*]}
```



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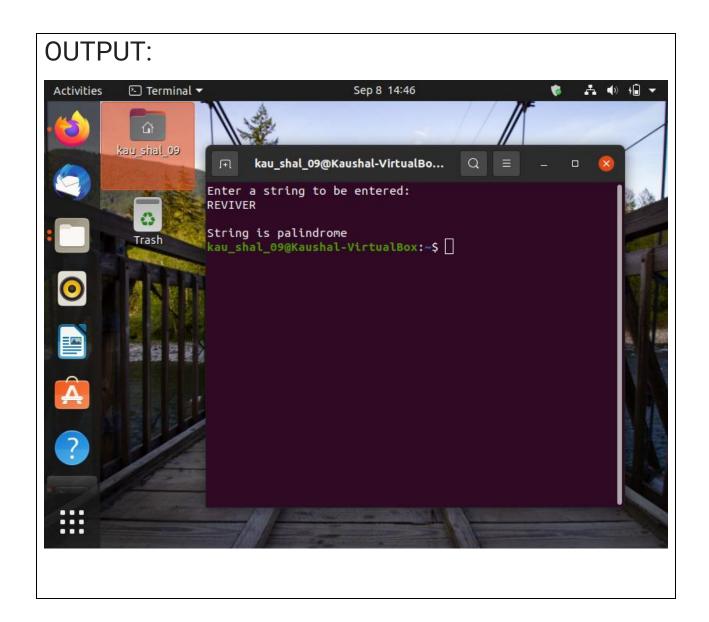
Q2) Write a shell program to check if a given input string is a palindrome or not.

→#! /bin/bash

clear

echo "Enter a string to be entered:"

```
read str
echo
len='echo $str | wc -c'
len='expr $len - 1'
i=1
j=`expr $len / 2`
while test $i -le $j
do
k=`echo $str | cut -c $i`
I=`echo $str | cut -c $len`
if test $k != $l
then
echo "String is not palindrome"
exit
fi
i=`expr $i + 1`
len='expr $len - 1'
done
echo "String is palindrome"
```



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