

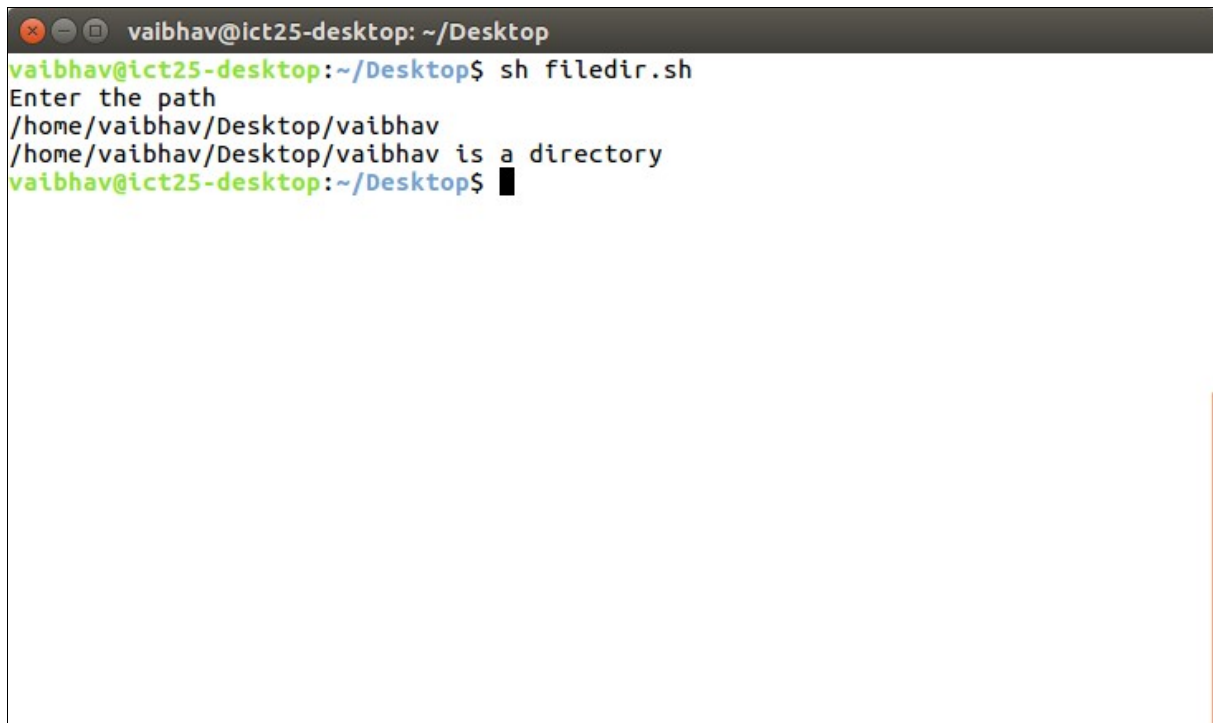
Experiment No:- 9

Aim:- Write a shell script program to check whether the given file is directory or not

Program:-

```
echo "Enter the path"
read ABC
if [ -d "${ABC}" ] ; then
echo "$ABC is a directory"
else
if [ -f "${ABC}" ] ; then
echo "$ABC is a file"
else
echo "$ABC is invalid"
exit
fi
fi
```

Output:-



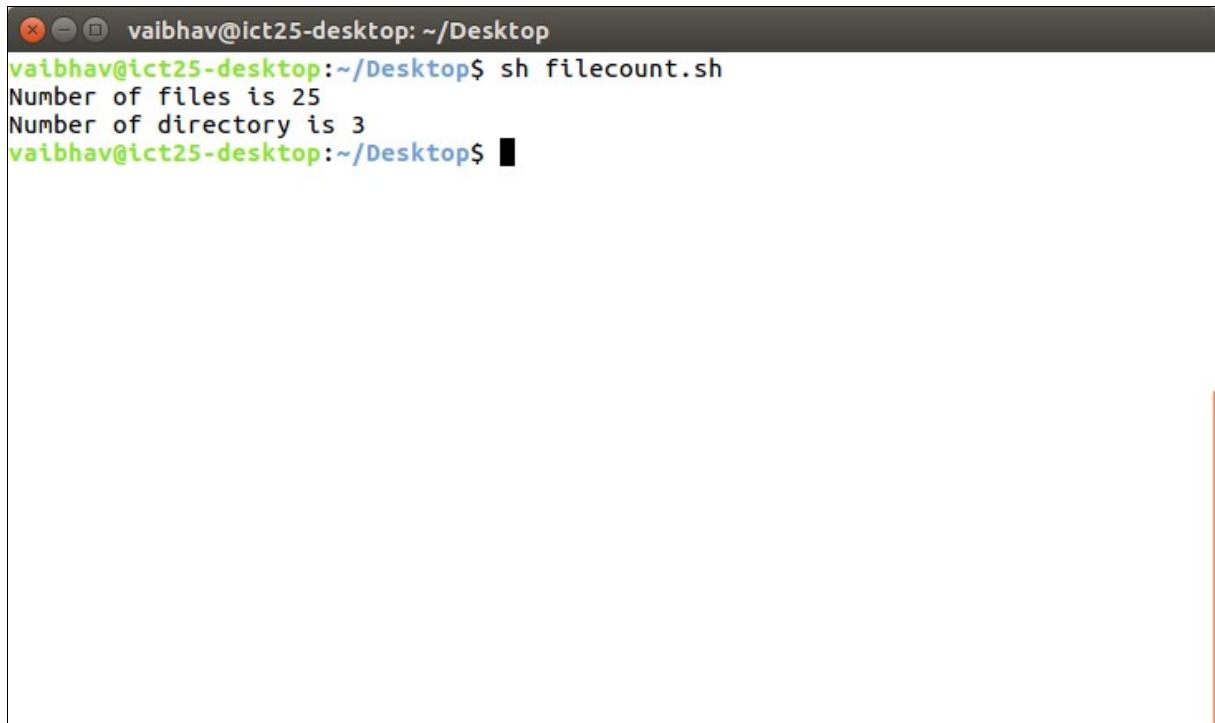
```
vaibhav@ict25-desktop: ~/Desktop
vaibhav@ict25-desktop:~/Desktop$ sh filedir.sh
Enter the path
/home/vaibhav/Desktop/vaibhav
/home/vaibhav/Desktop/vaibhav is a directory
vaibhav@ict25-desktop:~/Desktop$
```

Aim:- Write a shell script program to count number of files in directory

Program:-

```
if [ -d "$@" ] ; then
echo "Number of files is $(find "$@" -type f | wc -l)"
echo "Number of directory is $(find "$@" -type d | wc -l)"
else
echo "[Error!!!]Please provide the directory"
exit
fi
```

Output:-



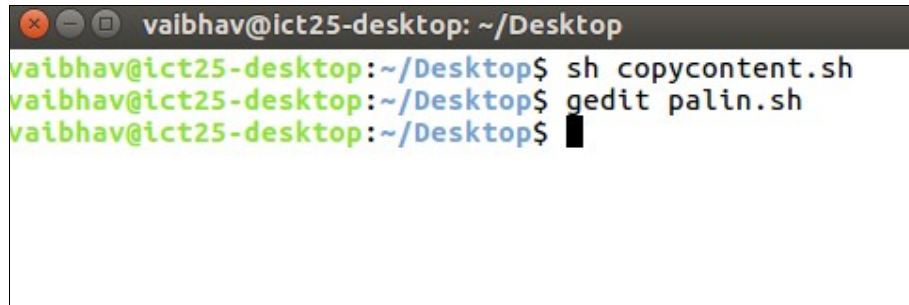
```
vaibhav@ict25-desktop: ~/Desktop
vaibhav@ict25-desktop:~/Desktop$ sh filecount.sh
Number of files is 25
Number of directory is 3
vaibhav@ict25-desktop:~/Desktop$
```

Aim:- Write a shell script program to copy contents of one file to another

Program:-

cat fact.sh << palin.sh

Output:-



```
vaibhav@ict25-desktop: ~/Desktop
vaibhav@ict25-desktop:~/Desktop$ sh copycontent.sh
vaibhav@ict25-desktop:~/Desktop$ gedit palin.sh
vaibhav@ict25-desktop:~/Desktop$
```

Palindrome:-

```
echo "Enter first string:-"
read a
a1=$(echo $a | rev)
if [ $a = $a1 ];
then
echo "String is palindrome"
else
echo "String is not palindrome"
fi
```

Factorial:-

```
echo "Enter first number:-"
read n
f=1
i=1
while [ $i -le $n ]
do
f=`expr $f \* $i`
i=`expr $i + 1 `
done
echo "Factorial of $n is $f"
```

Aim:- Write a shell script program to use a pipeline command substitution to set the length of the line in file to the variable

Program:-

cat filecount.sh || sed -e '1,15d'

Output:-

```
vaibhav@ict25-desktop: ~/Desktop
vaibhav@ict25-desktop:~/Desktop$ sh variable.sh
if [ -d "$@" ] ; then
echo "Number of files is $(find "$@" -type f | wc -l)"
echo "Number of directory is $(find "$@" -type d | wc -l)"
else
echo "[Error!!!]Please provide the directory"
exit
fi
vaibhav@ict25-desktop:~/Desktop$ █
```

Aim:- Write a shell script program using sed command to print duplicated lines of Input

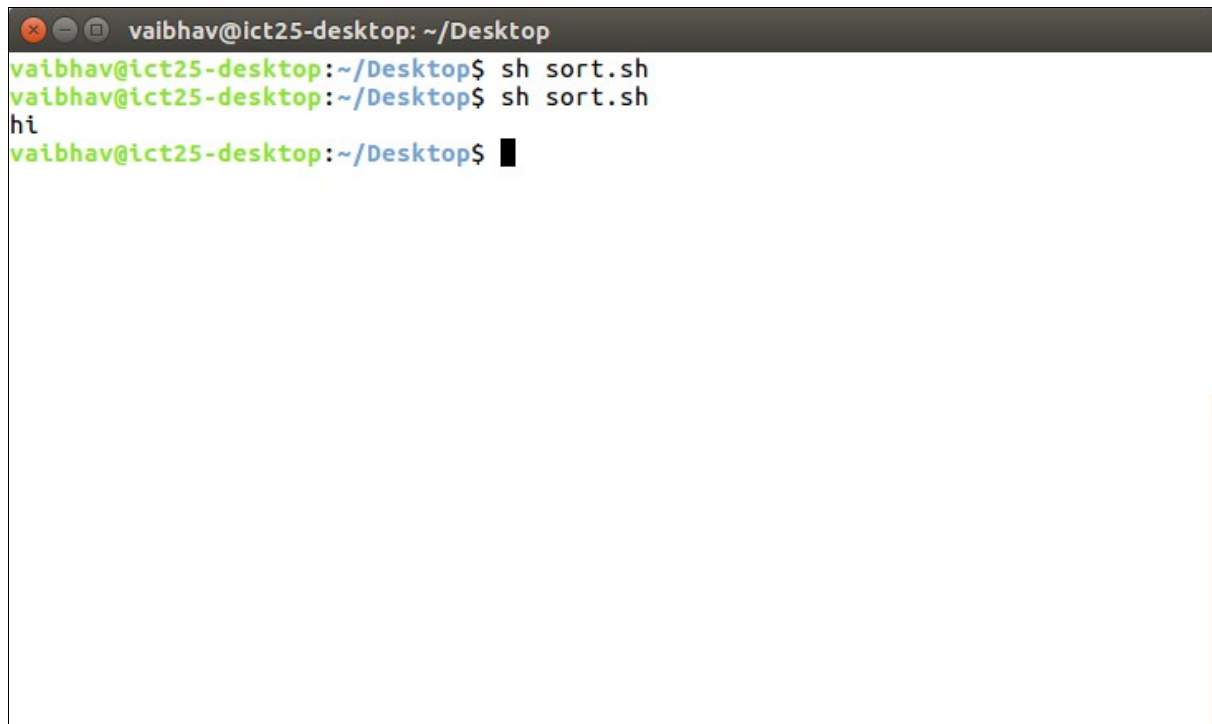
Program:-

```
sort abc.txt | uniq -d
```

abc.txt:-

```
hi  
hello  
hi  
hey  
heyaa
```

Output:-



```
vaibhav@ict25-desktop: ~/Desktop  
vaibhav@ict25-desktop:~/Desktop$ sh sort.sh  
vaibhav@ict25-desktop:~/Desktop$ sh sort.sh  
hi  
vaibhav@ict25-desktop:~/Desktop$
```

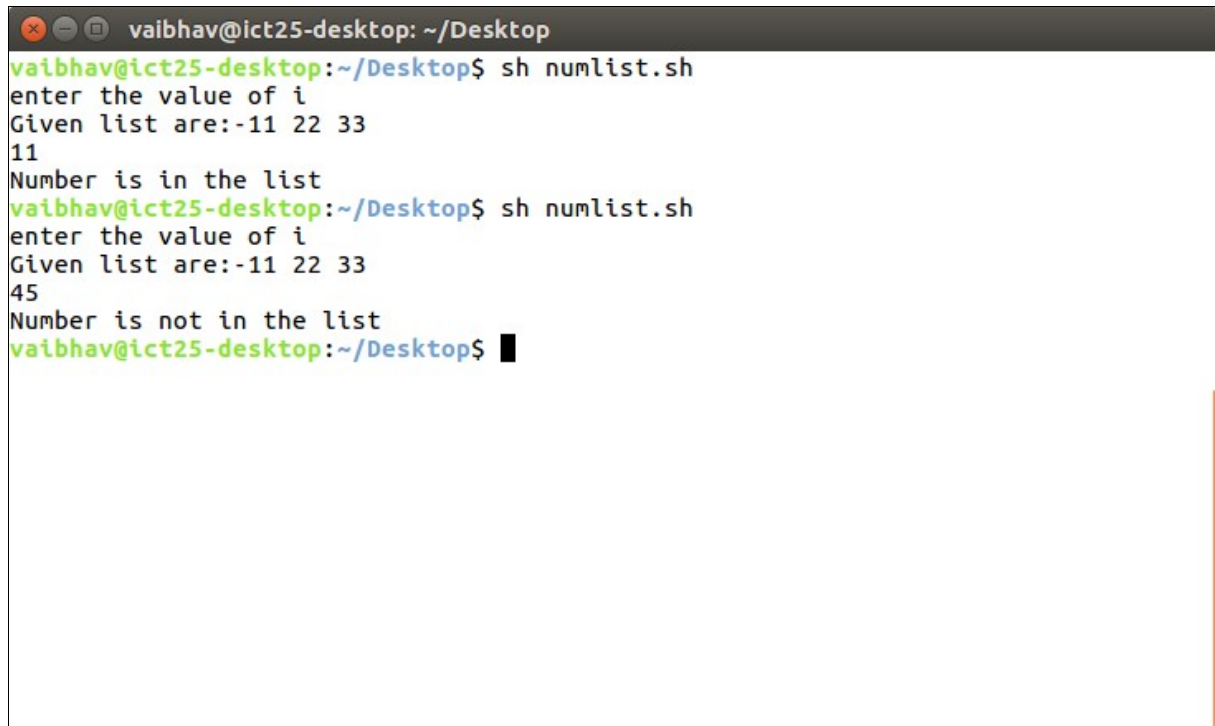
The screenshot shows a terminal window titled 'vaibhav@ict25-desktop: ~/Desktop'. It displays the execution of a shell script named 'sort.sh' twice. The first execution results in the output 'hi'. The second execution shows the prompt without any output, indicating that the script successfully identified and filtered out the duplicated line 'hi' from the input file 'abc.txt'.

Aim:- Write a shell script program to search whether an element is present in list or not

Program:-

```
echo "enter the value of i"
echo "Given list are:-11 22 33"
read i
for item in 11 22 33
do
if [ "$i" -eq "$item" ] ;then
echo "Number is in the list"
exit
fi
done
echo "Number is not in the list"
```

Output:-



```
vaibhav@ict25-desktop: ~/Desktop
vaibhav@ict25-desktop:~/Desktop$ sh numlist.sh
enter the value of i
Given list are:-11 22 33
11
Number is in the list
vaibhav@ict25-desktop:~/Desktop$ sh numlist.sh
enter the value of i
Given list are:-11 22 33
45
Number is not in the list
vaibhav@ict25-desktop:~/Desktop$
```