

2.1 Write a shell script that receives any number of file & directory names as arguments checks if every argument supplied is a file or a directory and reports accordingly. Whenever the argument is a file, then check the file contains odd number of lines or not.

```
for i in $*
do

if [ -d $i ]
then
echo "$i is a directory";
fi

if [ -f $i ]
then
echo "$i is a ordinary file";

count=$(wc -l < $i);    #no of lines in the file
t=`expr $count % 2`;

if [ $t -eq 0 ]
then
echo "$i contains even number of lines";
else
echo "$i contains odd number of lines";
fi

fi
done
```

```
alan@DESKTOP-N0TVOD0: /mnt/e/networklab/shell_program
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_1.sh dir1 dir2 hello.sh hai sample1.txt sample.txt
dir1 is a directory
dir2 is a directory
hello.sh is a ordinary file
hello.sh contains odd number of lines
sample1.txt is a ordinary file
sample1.txt contains even number of lines
sample.txt is a ordinary file
sample.txt contains odd number of lines
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ _
```

2.2 Write a shell script to check whether the given number is palindrome or not.

```
echo "enter the number:";
read n
temp=$n;

while [ $temp -ne 0 ]
do
    reverse=$reverse$((temp%10));
    temp=$((temp/10))
done

if [ $n -eq $reverse ]
then
    echo "Palindrome";
else
    echo "Not palindrome";
fi
```

```
not palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
121
Palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
123
Not palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
1
Palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
12
Not palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
1234
Not palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 2_2.sh
enter the number:
4334
Palindrome
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$
```

