



Experiment No. 2.2

Write programs using Arithmetic operators in shell programming & Boolean operators in shell programming

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Branch: - (CSE-IOT)
Semester: 3rd
Section/Group: - 20BIT (A)
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Subject Name: -Operating System Lab **Subject Code:** 21O-20CSP-232_20BIT-1_B

1. Aim/Overview of the practical: Write a program to show Arithmetic operators in shell programming & Boolean operators in shell programming.

2. Task to be done:

Understand and execute basic commands of shell script.

3. Apparatus:

- Laptop/PC
- Good internet connection
- C language IDE
- UNIX system







4. CODE:

1. Write a shell program to Check a given year is a leap year or not.

Program code-

```
echo "LEAP YEAR SHELL SCRIPT"

echo -n "Enter a year:"

read year_checker

if [ `expr $year_checker % 4` -eq 0 ]

then

echo "$year_checker is a leap year"

else

echo "$year_checker is not a leap year"

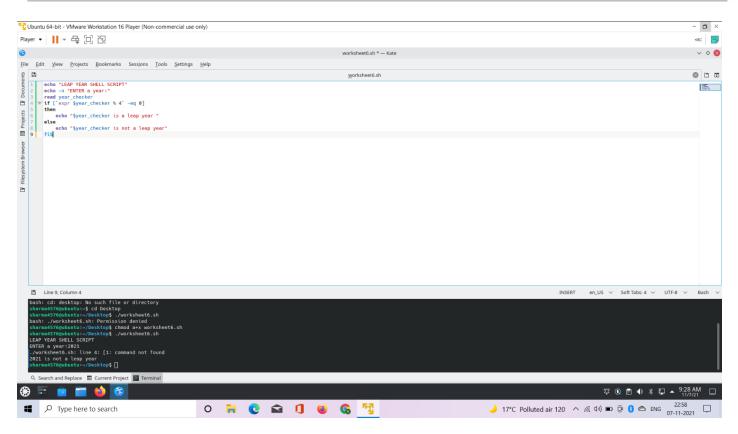
fi
```

Output-









2. Write a Shell program to check a number is Palindrome or not.

Program code-

```
echo enter n

read n

num=0

on=$n

while [ $n -gt 0 ]

do

num=$(expr $num \*10 )

k=$(expr $n /% 10 )

num=$(expr $num + $k)

n=$(expr $n / 10)
```



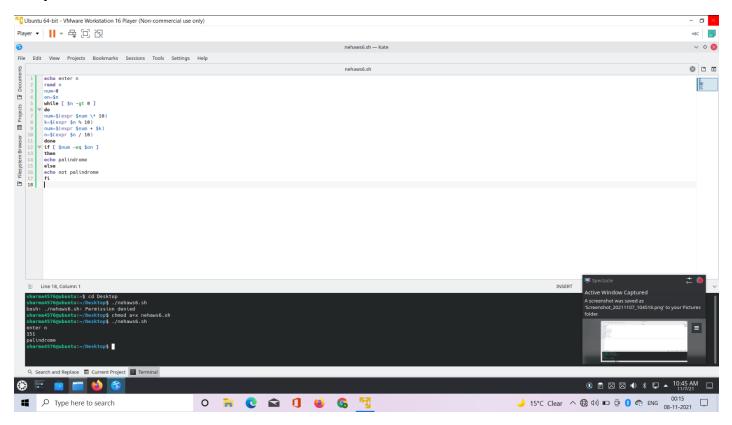
done





```
if [ $num -eq $on ]
then
  echo palindrome
else
  echo not palindrome"
fi
```

Output-



5.Result: Commands working successfully







Learning outcomes (What I have learnt):

- 1. Learn how to use different Linux commands like chmod ,echo, read command
- 2. Understood and execute basic commands of shell script
- 3. Applied the basic operations in shell script which are required for different

applications.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
|---------|------------|----------------|---------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
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