Experiment No.5
Write a program a) to show the use of echo. b) to read the keywords in shell programming

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Subject Name: Operating System Lab **Subject Code: 20CSP-232**

1. Aim/Overview of the practical: Write a program in shell script

a) to show the use of echo.

b) to read the keywords in shell programming

2. Task to be done:

- Writing a program in shell script to show the use of echo and read commands in bash to perform operations such as addition, subtraction and division.

- Writing a program in shell script using echo and read commands to take input from user and check whether the input number is even or odd.

3. Algorithm/Flowchart:

Command: echo command in linux is used to display line of text/string that are passed as an argument . This is a built in command that is mostly used in shell scripts and batch files to output status text to the screen or a file.

Syntax: echo [OPTION(S)] [STRING]

Command: read read command is used to read the contents of a line into a variable. It is used for taking input from the user when creating a bash script.

Syntax: read [options] [name...]

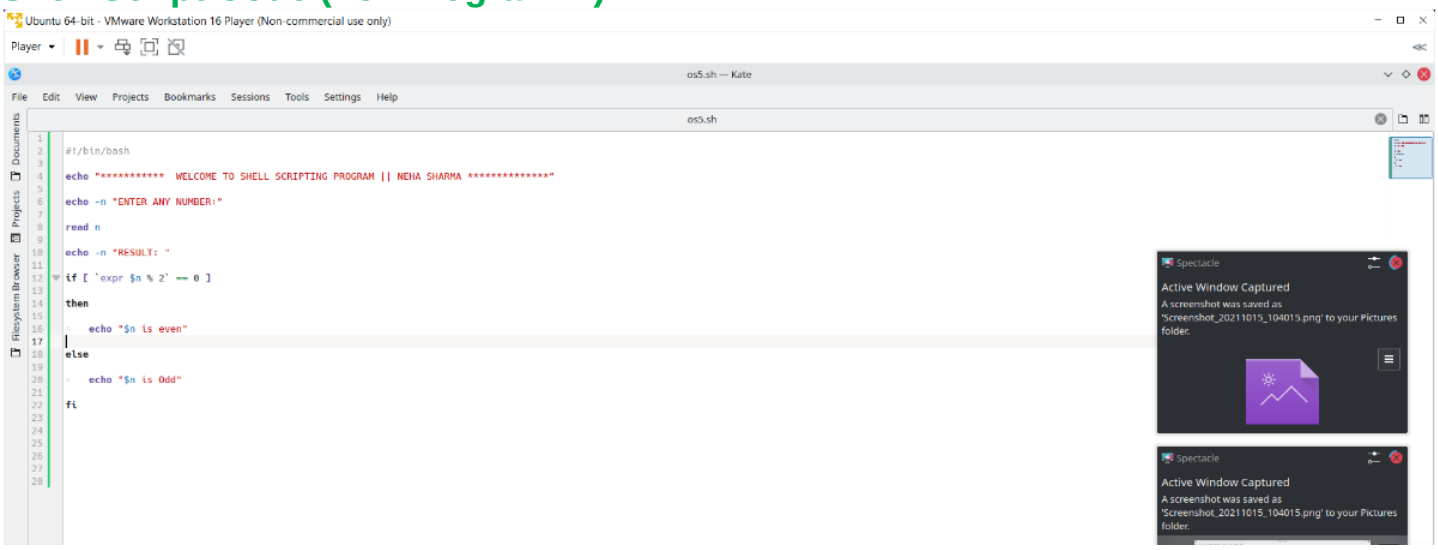
4. Steps for experiment/practical:

Shell Script Code (For Program A) :

```
a=40
b=20

val=`expr $a + $b`
echo "a + b : $val"

val=`expr $a - $b`
echo "a - b : $val"

val=`expr $a \* $b`
echo "a * b : $val"

val=`expr $b / $a`
echo "b / a : $val"

val=`expr $b % $a`
echo "b % a : $val"

if [ $a == $b ]
then
   echo "A IS EQUAL TO B"
fi

if [ $a != $b ]
then
   echo "A IS NOT EQUAL TO B"
fi
```

```
#!/bin/bash
echo "****************************** WELCOME TO MY SHELL SCRIPT PROGRAM ~ NEHA SHARMA ******************************"
a=40
b=20

val=`expr $a + $b`
echo "a + b : $val"

val=`expr $a - $b`
echo "a - b : $val"

val=`expr $a \* $b`
echo "a * b : $val"

val=`expr $b / $a`
echo "b / a : $val"

val=`expr $b % $a`
echo "b % a : $val"

if [ $a == $b ]
then
   echo "A IS EQUAL TO B"
fi

if [ $a != $b ]
then
   echo "A IS NOT EQUAL TO B"
fi
```

Shell Script Code (For Program B) :

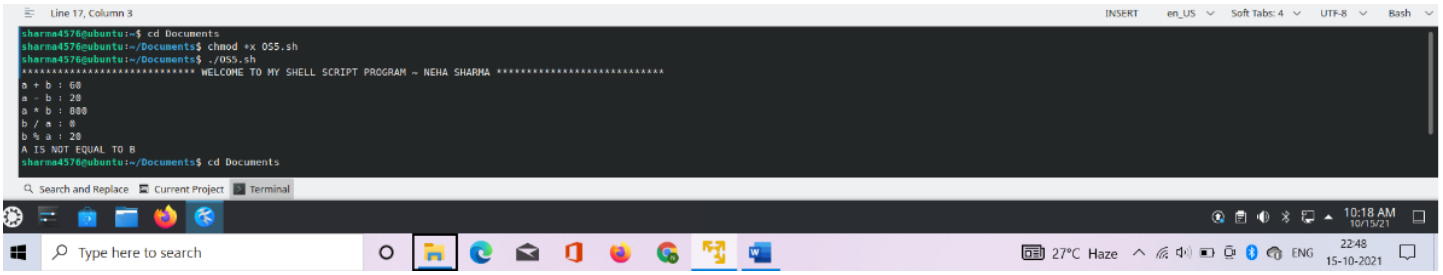



```
#!/bin/bash

echo "**********  WELCOME TO SHELL SCRIPTING PROGRAM || NEHA SHARMA **********"

echo -n "ENTER ANY NUMBER:"

read n

echo -n "RESULT: "

if [ `expr $n % 2` == 0 ]

then

        echo "$n is even"

else

        echo "$n is Odd"

fi
```

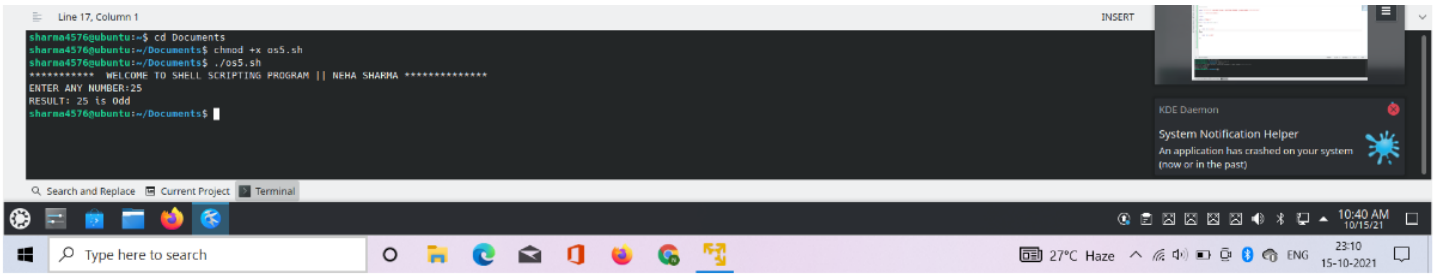
5. Observations/Discussions: In this experiment I learned about writing commands in shell script and making use of echo and read command, their syntax and implementation.

6. Shell Script Program Output:

TERMINAL OUTPUT (PROGRAM A):



TERMINAL OUTPUT (PROGRAM B):



Learning outcomes (What I have learnt):

1. Syntax of echo and read bash line commands.
2. To show the use of echo.
3. To read the keywords in shell programming.

Evaluation Grid:

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