



B M S. COLLEGE OF ENGINEERING

(Autonomous Institution)

RECORD OF PRACTICAL WORK

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Particulars of the Experiments Performed CONTENTS

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1_3	3/1/22	Mrite a program to puint posix defined configuration using test macros	1	19
3	(1122	julcite a program to demonstrate interprocess communication between		21

a reader and writer process.

Expt. No	Page NoL
* Shell script to find if the given year is	leap or not
#1:/bin/sh	
echo "Enter year"	
read year	
if [8((year 7- 4)) -cq 0]	
then	
if [8 ((year 1/200)) -eq 0]	
then	
if [\$((year 1, 400)) - eq 0]	
then	
echo "Leap year"	
else	
echo "Not a leap year"	
fi	
else	
echo "Leap year"	
Fi	
else	
echo "Not a leap year"	
fi	
	The state of the state of the state of
Teacher's	Signature :

Output:

Enter year 2016 Leap year

Enter year 2013 Not a leap year

Expt	. No	Page No2
T	shell script to find area of circle	
-	#:\bin\sh	
-	echo "Enter radius"	-
	read r	
	pi=3-1415	
	ans='echo "π* gc*&r" bc'	
	echo \$ans	
_		
_		
_		
-	Teacher's Signature :	

Enter radius 4 50.2624

No 3	Date 25/16/21
Expt. No. 3	Page No3
* shell script to find whether the number negative	is zero or positive or
#!\bin\sh	
echo "Enter number"	
read o	
if [sn-eq o]	
thea	
echo "700"	
elif [9n-gt O]	
then	
echo "positive number"	
else	
echo "negative number"	
fi	
Teacher	's Signature :

Enter number

0

Zero

Enter number

4

positive number

Enter number

-8

megative number

nt. No. 4 Page No. 4
shell script to find biggest of three numbers
#! \bin\sh
echo "Enter a"
reada
echo "Enter b"
read b
echo "Enter c"
read C
if [8a -gt 8b -a 8a -gt 86]
then
echa "a is big"
elif [8b-9t 8C]
then
echo" b is big"
els e
echo "C is big"
fi
Teacher's Signature :
The same of the sa

Output:

Enter a
-3
Enter b
8
Enter c
1
b is big

	Date 2/11/21
Expt. No. 5	Page No5
* shell script to flood factorial of	a number
#11bin1bash	
Echo "Enter number"	
read n	
Fact=1	
for ((i=1; i<=\$n; i++))	
do	
fact= \$((fact^i))	
done	
echo "Factorial is: &fact"	

Enter number
4
Factorial is: 24

Enter basic salary:

aross salary: 1171.274

Teacher's Signature: .

Enter temperature 32 Temperature in calsius: 0

Enter two numbers:

20

5

Addition: 25

Subtraction: 15

Multiplication: 100

Division: 4.0000

Enter kimit the sum limit 10 Even sum: 30

- 1 1 3
- 1 2 1
- 123
- 131
- 133
- 211
- 212
- 2 1 3
- 221
- 2 2 2
- 2 2 3
- 2 3 1
- 232
- 2 3 3
- 3 1 1
- 3 1 2
- 3 1 3
- 321
- 3 2 2
- 3 3
- 3 3 2 3 3 3

	Date 15/11/24
Expt. No	Page No
shell script to find the power of a number	
#11bin/bash	
echo "Enter base: "	
read b	
cho "Entel power. "	
read P	
power	
for ((i=1; i = \$P; i++))	
100	
pow=8((4pow * 8b b())	
done	
echo & pow	
Tencher's Signature	

Enter base:

2

Enta powa:

5

32

	L)att
Expt. No	Page No12
shell script to find sum of a nedwal	numbels
#11bin/bash	
echo "Entu sum limit:"	
reado	
sam=0	
for ((1=0; ic=8n; i=i+1))	
40	
sum=\$((8aim + i))	
done	
echo "Sum: ssum"	

Enter sum limit:

4

Sam: 10

Expt. No. 13 Page No. 13		
Page No. 13		
* Shell script to display the pass class of a	student	
+1:1bin/sh		
who "Enter the marks obtained in subject!"		
read mi		
echo "Enter the marks obtained in subject?"		
read m2		
ebho "Enter the marks obtained in subject 3"		
read m3		
sum = 'expr &m1+&m2+&m3'		
axy = 'expr & sum/3'		
if [savg -gt 90]		
then		
echo "Grade 5"		
elif [8avg -gt so -a \$avg -le 90]		
then		
echo " Grade A"		
elif [\$arg -gt 65 -a \$arg -1e 90]		
then		
echo "Grade B"		
elif [8avg -gt 40 -a 8avg -1e 65]		
then		
echo "arade c"		
else		
echo "Fail"		
fi		
Teacher's Signa	ature :	

Output:

Enter the marks obtained in subject 1

70

Enter the marks obtained in subject 2

80

Enter the marks obtained in subject 3

90

Grade B

done

Fi

Teacher's Signature : _____

Output:

Enter positive values

Fibonacci series

Teacher's Signature : _____

Enter the string great length of string = 5
No of vowels = 2

Expt. No. 16 Page No. 16		
*	Snell script to check no-of lines, words, characters in a file.	
_	# /bin/sh	
	echo "Enter the no-of lines, characters and words in a file"	
	read echo "Enter the filename"	
	read fname	
	lines = 'wc -1 < &fname'	
	characters = 'wc -c < & Fname'	
	words = 'wc - cu < x fname'	
	echo "lines = dunes"	
	echo "characters = &chalacters"	
	echo "words = &words"	
_		
_		
_		
_	·	
_		
	Teacher's Signature :	

Enter filename Vocwel.sh Lines = 15 Chalacters = 301 Words = 49

Teacher's Signature: ___

output for this program is system dependent

```
output:
```

./a.out [-s] Lorg-file> <new-link>
./a.out 1234
./a.out [-s] Lorg-File> <new-lint>
./a.out 1.c Z
Houd link created
15-1
./a.out 1a.c.z
(annot create haud link
./a.out -s 1a.czz
symbolic link created
readlink zz1a.c

Expt. No.	Page No. 20
TI: Edef POSIX-NO-TRUNC	
printf ("pathname truncoption i	CV-110" PAGE OF TRUME);
# clse	S TIGHT, - POSTA_NO_TAUTO
	System-wide pathname trunc option In)
Hendef	Jan Sa Pedra La
#IF def-POSIX-VDISABLE	
printf l'Disable character for termi	nal files is rd (n'posix-voisarte).
Helse	·
print f l'System does not support.	POSIX-VOISABTE IN");
Hendif	
return 0:	
<u>y</u>	
	Teacher's Signature :

System supports job control
System supports saved set-UID and saved set-UID
chown_restricted option is I
pathame trunc option is I
Disable character for terminal files is 0.

	The state of the s
*	process communication between a reader process and within process. Use missife, open, read, write and close APIs in your program.
_	trinclude csystypes.h>
	th include cunistd.h>
	+ include < FCatloh>
_	+ include esystaten>
	Hinclude (string.h)
_	#include < erino.n>
	triallude «stdio·h»
	int main (int arge, chart argv ())
	1
	int fd;
	than buf [256];
	if (argc!=> 8 8 argc!=3)
	printf ("USAGE 1/5 < file> [<arg>] [n", argv [o]);</arg>
	(HULO)
	4
	mkfifo (argy [i], s_IFIFO s-IR WXU s-IR WXU s_IR WXO);
	if (arg == 2)
	Fd = openlargy (iJ, o-ROCNLY to-NON BLOCK);
	While (read(td, buf, size of (buf)) so)
	printf (" y.s", buf);
	Teacher's Signature :

Date
Page No. 22
THE RESERVE AS THE PARTY OF THE

·la·out FIFOI "This is USPlab" // Terminal I ·la·oud FIFOI / / Itaminal 2 This is USPlab.