

LAB ASSIGNMENT 3



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1. Write a shell program to add two numbers.Ans:-

Code: -

```
#!/bin/bash
a=12
b=14
sum=$((a + b))
echo "Sum of $a + $b = $sum "
```

Output: -

```
    bash add_to_number.sh
Sum of 12 + 14 = 26
```

2. Write a shell program to compare two strings using command prompt. Ans:-

Code: -

Output: -

```
L-$ ./compare_strings.sh
Enter the first string:
abc
Enter the second string:
aac
Strings are not equal

L-$ ./compare_strings.sh
Enter the first string:
abb
Enter the second string:
abb
Strings are equal
```

3. Write a shell program to generate Fibonacci series. Ans:-

Code: -

Output: -

```
L$ ./fibonacci_series.sh
Enter the number of terms in Fibonacci Series :
7
Fibonacci Series:
0 1 1 2 3 5 8
```

4. Write a shell program to check whether a character is VOWEL or CONSONANT using switch.

Ans: -

Code: -

Output: -

b is constant.

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5. Write a shell program to display the total number of words and total number of lines in a file.

Ans: -

Code: -

```
#!/bin/bash

# code to count number of word count in a file and number of lines in a file
echo "Enter the source / path of the file ( with file name ) :"
read the_path

echo "Total Number of Word Count in $the_path is : "
wc -w $the_path

echo "Total Number of Lines in $the_path is : "
wc -l $the_path
```

Output: -

```
L$ ./word_count_NOL.sh
Enter the source / path of the file ( with file name ) :
compare_strings.sh
Total Number of Word Count in compare_strings.sh is :
41 compare_strings.sh
Total Number of Lines in compare_strings.sh is :
14 compare_strings.sh
```

6. A script that takes a filename as input and displays information about the file, such as its size, permissions, owner, and modification time.

Ans: -

Code: -

```
#!/bin/bash
# script to display details of a file
echo "Enter the file name with its location : "
read t_path
echo
echo "Size of file $t_path is : "
stat -c "%s" $t_path
echo
echo "Permission of the file $t_path is : "
stat -c "%A" $t_path
echo
echo "Last Modification time of file $t_path is : "
stat -c "%y" $t_path
echo
echo "Owner of the file $t_path is : "
stat -c "%U" $t_path
```

Output: -

Operating System

```
Enter the file name with its location:
add_to_number.sh

Size of file add_to_number.sh is:
68

Permission of the file add_to_number.sh is:
-rwxr--r--

Last Modification time of file add_to_number.sh is:
2023-08-23 22:02:46.841440546 +0530

Owner of the file add_to_number.sh is:
ratn
```

7. Create a script that displays information about the system, such as the OS version, CPU, memory, disk usage, and network details.

Ans: -

Code: -

```
#/ Dis/Dash
# Pois/Dash
# Pois
```

Output: -

```
Deprating System :

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COPY Information;

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```