

EXPERIMENT NO. 3

Student Name and Roll Number: Chirag Sardana and 19CSU071
Semester /Section: 5 th / FS A1
Link to Code: https://github.com/chiragsardana/Skill-Developement/tree/master/OperatingSystem/Experiment-3rd
Date: 17 th August 2021
Faculty Signature:
Marks:

Objective: To write the shell programming code for the following.
Outcome: Student is able to write code in shell programming
Problem Statement: a) Write a shell program to find Fibonacci series. b) Write a shell program to find largest of three numbers. c) Write a shell program to find average of N numbers
Background Study: A shell script is a file with a set of commands in it. The shell reads this file and executes the instructions as if they were input directly on the command line. A shell is a command-line interpreter and operations such as file manipulation, program execution and text printing is performed by shell script. So, we will use vi editor to edit our files.
Question Bank: <ol style="list-style-type: none">1. What is a shell?2. What is the significance of \$#?3. What are the different types of commonly used shells on a typical Linux system?4. How will you pass and access arguments to a script in Linux?5. Use sed command to replace the content of the file (emulate tac command) Already Done in Last Experiment i.e., Experiment 2


```
(base) chiragsardana@MacBook new % zsh Fibonacci.sh
Enter the Nth Term
5
The Fibonacci series is :
0 1 1 2 3 %
```

→Max of Three Number Program

```
(base) chiragsardana@MacBook new % vim Max.sh
```

[illegible]

```
[(base) chiragsardana@MacBook new % zsh Max.sh
Enter Num1
4
Enter Num2
3
Enter Num3
2
The Max Number is:
4
```

→Average of N Number

```
[(base) chiragsardana@MacBook new % vim avg.sh
```

```
#!/bin/bash
```

```
echo "Enter Size(N)"
read N
```

```
i=1
sum=0
```

```
echo "Enter Numbers"
while [ $i -le $N ]
do
    read num          #get number
    sum=$((sum + num)) #sum+=num
    i=$((i + 1))
done
```

```
avg=$((sum/N))
```

```
echo "The Average of the Number is $avg"
```

```
~
~
~
~
~
~
~
~
~
```

```
"avg.sh" 24L, 251B
```

```
((base) chiragsardana@MacBook new % zsh avg.sh
Enter Size(N)
3
Enter Numbers
1
2
3
The Average of the Number is 2
```