

IDC101-Introduction to computers (Shell scripting)

Lab tasks – Session 01

November 7 2022

- Name your program as rollNo-WS-No-QNo (for example, if you are writing program for Q3, then, you should name it as rollNo-WS-01-Q3.sh)

- Q 1. Make a directory with your roll number under another directory idc101. (i.e. /home/iiser/idc101/ms*****/)
- Q 2. Learn to use various UNIX command (listed below).
- Q 3. Write a shell script which prints following on screen (Replace Name with your name):

```
*****
Welcome to IDC 101 Lab Session
*****

Date: 06-11-2022
Name: Shashi

I am learning to code in BASH script.
This is my first script.

Bye
```

- Q 4. Write a Shell script to add 5 numbers (do not use for loop) and compute average of it. Print the sum and average as output.
- Q 5. Write a shell script to add numbers from 1 to 50 (use for loop) and find average of it.
- Q 6. Write a Shell script to add numbers from a given file and find average of it. (Advanced).

List of UNIX commands:

date	Output today's date. The output format can be specified by "date +" %d – date %m – month , %y – year (Last two numbers of year), %Y – year (all four numbers)
seq StNo EndNo	Output numbers from StNo (Start Number) to EndNo (End Number) End Number must be greater than start number
cat filea	Read filea and output contents of filea on the screen or direct to another output
echo "Content"	Output the whatever is after echo command on the screen with new line character
echo -n "Content"	Output the whatever is after echo command on the screen without new line character
pwd	Output present working directory
ls	List files/directory within a directory (Try other options with ls)
mkdir	Make directory/folder
cd	Change directory to a destination directory
cp filea fileb	Make copy of filea as fileb
mv filea fileb	Move filea into fileb (filea will disappear)
head filea	Output first 10 lines of filea
tail filea	Output last 10 lines of fileb

Loop syntax:

```
for i in counter: [ counter can be: `seq StNo EndNo`
do
    .....
done
```

OR: {StNo..EndNo}]