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 <u>rollNo-WS-01-Q3.sh</u>

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. (<u>Advanced</u>).

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                              OR: {StNo..EndNo}  ]
   ……..
done
```