ASSIGNMENT 2

1. Write a shell script named as prog for merge the content of files a.txt, b.txt, and c.txt sort them and save the result in a file called result and display the sorted output on the screen.

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano prog
aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x prog
aryan@Aryan:~/DOS_2241019403/DOSass2$ echo -e "3\n1\n2" > a.txt
aryan@Aryan:~/DOS_2241019403/DOSass2$ echo -e "6\n5\n4" > b.txt
aryan@Aryan:~/DOS_2241019403/DOSass2$ echo -e "9\n7\n8" > c.txt
aryan@Aryan:~/DOS_2241019403/DOSass2$ ./prog
1
2
3
4
5
6
7
8
9
aryan@Aryan:~/DOS_2241019403/DOSass2$
```

2. Write a shell script named as systeminfo that will display the information about the login name of the user, name of the Unix system used by the user, type of the SHELL, Path of current working directory of the user and list of file contain in current working directory. (Make the script an executable file and run it as a command using its name only.)

```
aryan@Aryan:~$ cd DOS_2241019403
aryan@Aryan:~/DOS_2241019403$ cd DOSass2
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano systeminfo
aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x systeminfo
aryan@Aryan:~/DOS_2241019403/DOSass2$ ./systeminfo
Login name of the user : aryan
Name of the Unix system : Aryan
Type of the shell : /bin/bash
Current working directory : /home/aryan/DOS_2241019403/DOSass2
List of files in the current working directory :
total 24
-rw-r--r-- 1 aryan aryan   6 Oct 28 22:31 a.txt
-rw-r--r-- 1 aryan aryan   6 Oct 28 22:32 b.txt
-rw-r--r-- 1 aryan aryan   6 Oct 28 22:32 c.txt
-rwxr-xr-x 1 aryan aryan  53 Oct 28 22:30 prog
-rw-r--r-- 1 aryan aryan  18 Oct 28 22:32 result
-rwxr-xr-x 1 aryan aryan 221 Oct 28 22:40 systeminfo
aryan@Aryan:~/DOS_2241019403/DOSass2$
```

3. Write a shell script named as dtcal for displaying both the system date and calendar for specific month, say march 2022, in the given format:- Date : specific date Calendar : current calendar

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano dtcal
aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x dtcal
aryan@Aryan:~/DOS_2241019403/DOSass2$ ./dtcal
Date: 2024-10-28
Calender for march 2022:
      March 2022
Su Mo Tu We Th Fr Sa
       1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```

4. Write a shell script named as nvwc which will display the filename and linecount, wordcount and char count of the file dtcal in the following format:
 Filename: dtcal
Line count: -
Word count: -
Charcout: -

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano nvwc
aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x nvwc
aryan@Aryan:~/DOS_2241019403/DOSass2$ ./nvwc
Filename: dtcal
Line count: 4
Word count: 13
Char count: 81
aryan@Aryan:~/DOS_2241019403/DOSass2$
```

5. Write a shell script named as nvwc2 which will display the filename and linecount, word count and char count of any file given as argument to nvwc2 in the following format: filename linecount wordcount charcount file1 - - - (Make the script an executable file and run it as a command using its name only.)

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ cat nvwc2
echo "Filename: dtcal"
echo "Line Count  Word Count  Charcater count "
echo "$(cat dtcal | wc -l)      $(cat dtcal | wc -w)     $(cat dtcal | wc -m)
"

Filename : dtcal
Line Count  Word count  Character count
3           9           52
aryan@Aryan:~/DOS_2241019403/DOSass2$
```

6. Write a shell script named as darg to display the total number of command line arguments along with the first two arguments. -Modify the script to display all the arguments. (Make the script an executable file and run it as a command using its name only.)

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano darg
aryan@Aryan:~/DOS_2241019403/DOSass2$ cat  darg
echo "First argumnet : $1"
echo "Second argumnet : $2"
echo "All argumnet : $@"
echo "Total argumnet : $#"

aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x darg
aryan@Aryan:~/DOS_2241019403/DOSass2$ PATH=$PATH:$PWD
aryan@Aryan:~/DOS_2241019403/DOSass2$ darg Naruto Uzumaki
First argumnet : Naruto
Second argumnet : Uzumaki
All argumnet : Naruto Uzumaki
Total argumnet : 2
aryan@Aryan:~/DOS_2241019403/DOSass2$ |
```

7. Write a shell script named as ndisp that will take three command line arguments specifying the value of n, m and a filename and display the first n number of lines and last m number of lines of the file given as argument. (Make the script an executable file and run it as a command using its name only.)

```
aryan@Aryan:~/DOS_2241019403/DOSass2$ nano ndisp
aryan@Aryan:~/DOS_2241019403/DOSass2$ chmod +x ndisp
aryan@Aryan:~/DOS_2241019403/DOSass2$ ./ndisp 5 3 dtcal
First 5 lines of dtcal:
echo "Date: $(date '+%Y-%m-%d')"
echo "Calender for march 2022: "
cal mar  2022

Last 3 lines of dtcal:
echo "Calender for march 2022: "
cal mar  2022

first 5 lines :
echo "Date: $(date '+%Y-%m-%d')"
echo "Calender for march 2022: "
cal mar  2022



last 3 lines :
echo "Calender for march 2022: "
cal mar  2022
```