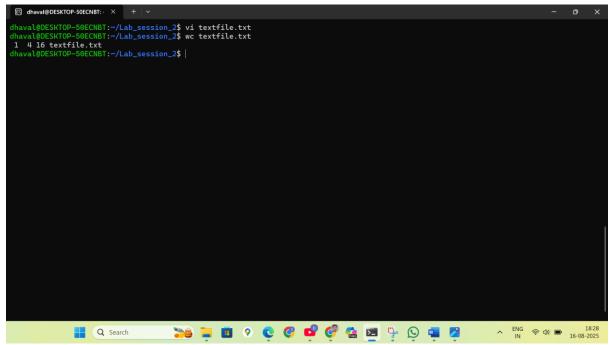
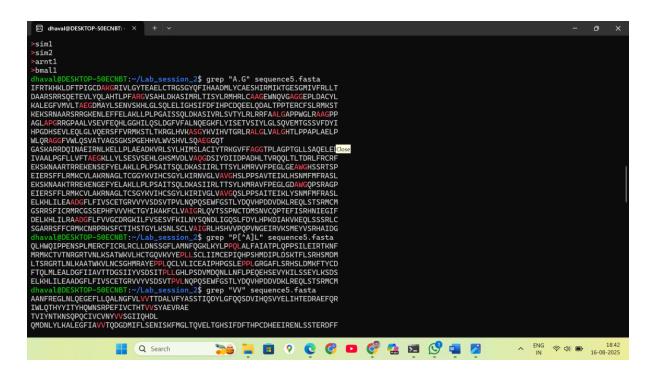
## Part 1

1.

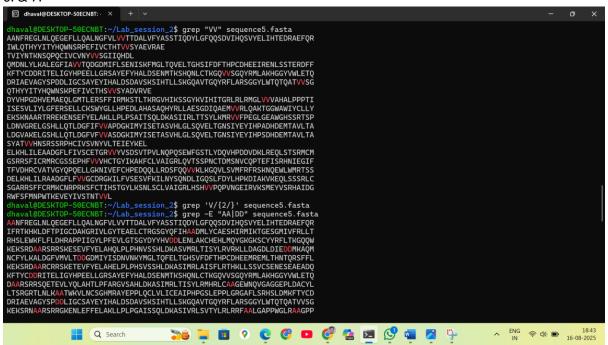


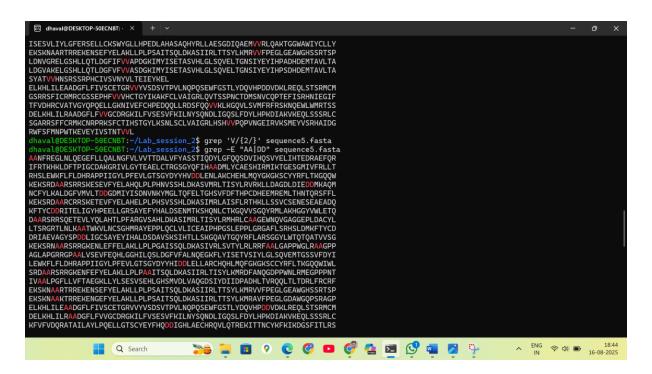
# Part 2

2. & 3.

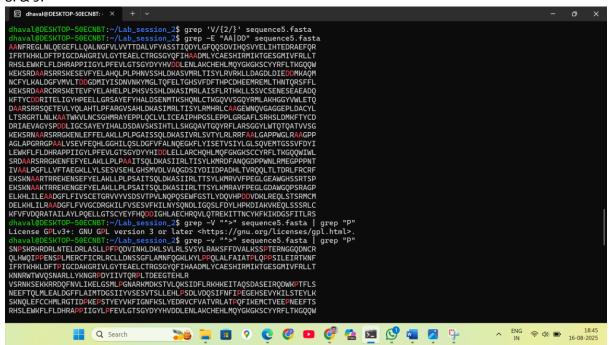


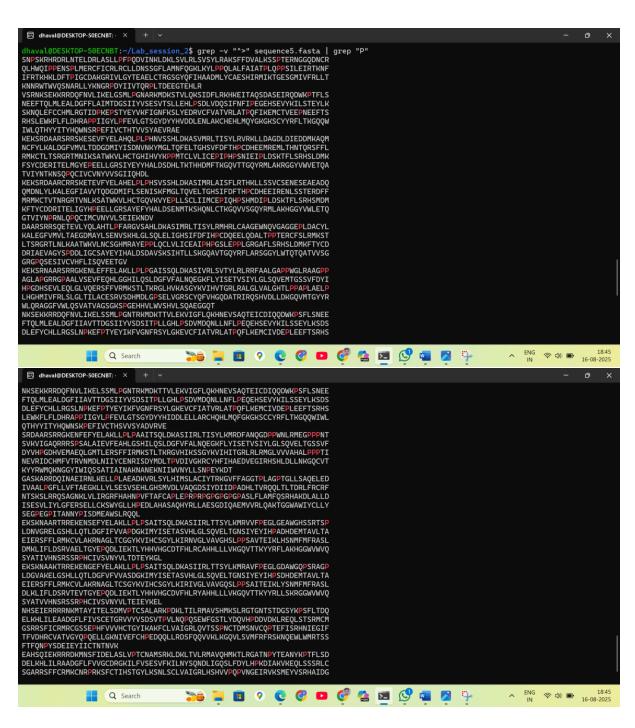
# 6. & 7.





# 8. & 9.





Part 3

9., 10., 11.

```
SSRRSFICHMCGSSEHFFUVMHCTGYTLAKFCLVAIGRLQVTSSPNCTOMSNVCQPTEFISRHHIEGIF
TFDUHRCATANCYOPOLLCAMITYJECHPEDQQLLDGDSFQQVVKLKQVLSVMFRSKNQEWLWMRTSS
FTFQNPYSDEISYJICTININW
EAHSQLERARRANMISFIDELASLAVTOMANSRULDKLTVLEMAVQHHMTLRGATNDYTEANYWOTELSD
DELHALIR ARADGELFVYGCORGKILFVSESVFKILNYSQNDLTQQSLFDYLHRDIAKVKEQLSSSRLC
SGARRSFCRNKCNRPHKSFCTIAHSTGVLKSNLSCLVAGRICHSHNVYGCYNHGEIRVKSMEYVSRHAIDG
KRYFVVQRATALAVLTQELLGTSCYEVFHQDDIGHLAECHRQVLQTREWITHGVKFKIRGOSFILRS
RWFSFNHWTHKEVEYIVSTNIVVL
Number of sequences in sequence5.fasta'
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ seq="sequence5.fasta'
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep -c $seq
'[IA-YIEDFICC'
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep -c *>" $seq

13
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep -pattern protein.fasta
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep spattern protein.fasta
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ protein.fasta
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep Spattern protein.fasta
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ grep Spattern protein.fasta
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ bash -c 'echo $myvar'
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ bash -c 'echo $myvar'
dhaval@DESKTOP-SBECNBT:*/Lab_session_2$ bash -c 'echo $myvar'
dhaval@DESKTOP-SB
```

#### Part 4

### 12

```
dhaval@DESKTOP-50ECNBT:~/Lab_session_2$ wc -l sequence3.fasta

19 sequence3.fasta
dhaval@DESKTOP-50ECNBT:~/Lab_session_2$ echo *.fasta
protein.fasta sequence.fasta sequence1.fasta sequence2.fasta sequence3.fasta sequence4.fasta sequence5.fasta
```

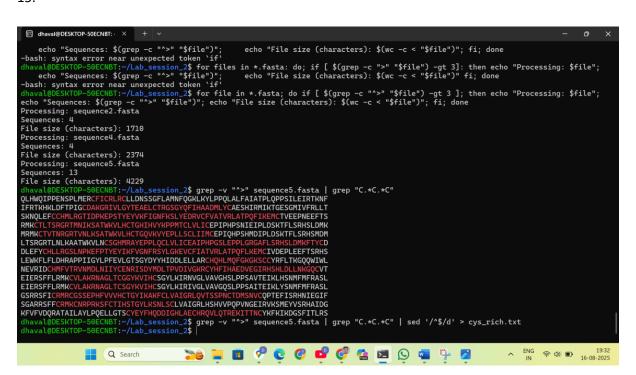
13.

```
### display | ##
```

Note – I took help from Chat-gpt for arrange this code.

## Part 5

15.



Note - sed command I got from Chat-gpt.