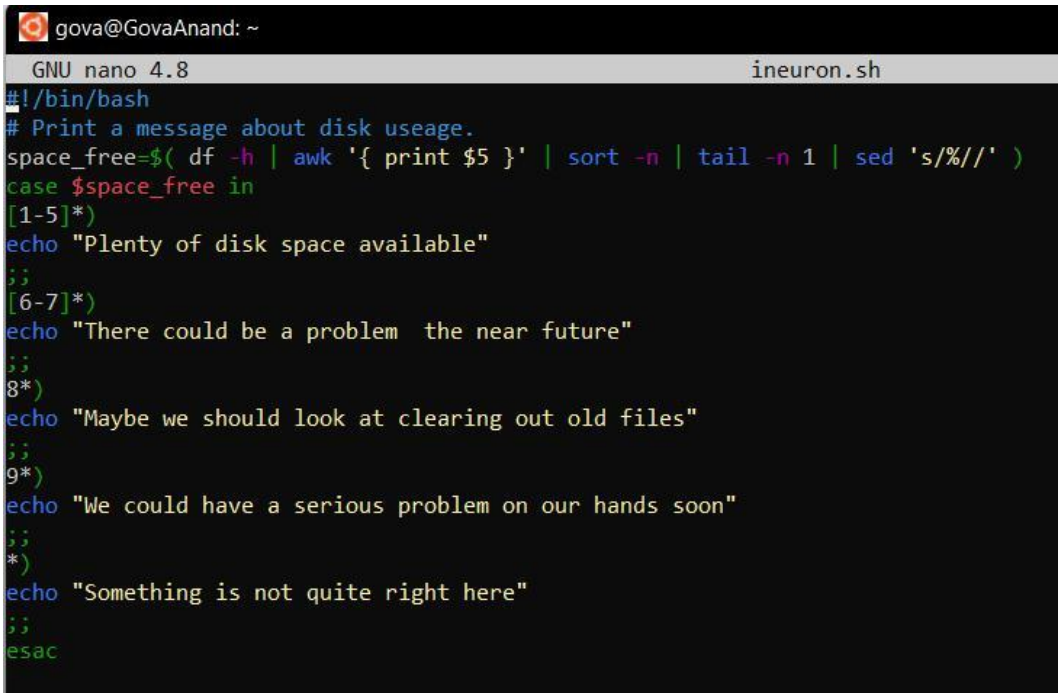
Assignment 5

Question 1: Explain this following bash script:

```
#!/bin/bash
space_free=$( df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//' )
case $space_free in
[1-5]*)
echo Plenty of disk space available
;;
[6-7]*)
echo There could be a problem in the near future
;;
8*)
echo Maybe we should look at clearing out old files
;;
9*)
echo We could have a serious problem on our hands soon
;;
*)
echo Something is not quite right here
;;
Esac
```



Explanation:

So in this script its checking for free disk space in the directory we are in so for that they used

df-h

Which will provide use the output of disk free space in human readable form (in kb,mb,gb,tb like that)

And then Pipeline command **|**

awk{print $5}

So **awk** command is used to manipulate the data and here they used **print $5** wchich will print 5th field in **df -h** so in free space 5th field is **use%**

Sort -n

This will sort the output from lowest to highest

Tail -n 1

This cmd will print last line

Sed s/%//

So sed command is a stream editor and it is **used to find and replace content** .

Here we are **finding %** and **replacing it with empty space** so at the and the output will be just number which sorted from low to high

Switch case is used here it will check each and every case if it passes any case then particular output will be displayed

My output is: