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 :

The shell script is written to describe the situation based on the free disk space available.

Firstly, we give shebang for Bash shell scripting

Then we are giving the value for which the user should get the corresponding output

Next, we are making use of Case statement for providing different strings for different input values.

Then \* is used for the values which are beyond the case statements