Explain the 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:

- 1. Using **df -h** command to Display the amount of free space in the file system in human readable format
- 2. Then giving this output as an input to the awk '{ print \$5 }' command
- 3. using 'awk '{print \$5}' to print the 5th word in the line using the variable \$5.
- 4. Then giving this output as an input to the sort -n command
- 5. **sort -n** command This will sort from lowest number to highest number and write the result to standard output.
- 6. Then giving this output as an input to the tail -n 1 command
- 7. The **tail -n 1** command print the last line of the input file

- 8. Then giving this output as an input to the sed 's/%//' command
- 9. This **sed** 's/%//' will remove the % from the output value
 Then Storing the value which came from the above command into the **space_free** variable

Based on the value of the variable the case statement will be executed