1) We begin with creating a new directory and copying the file BrainCancer.csv to it. We then open the file using ***vim*** editor.

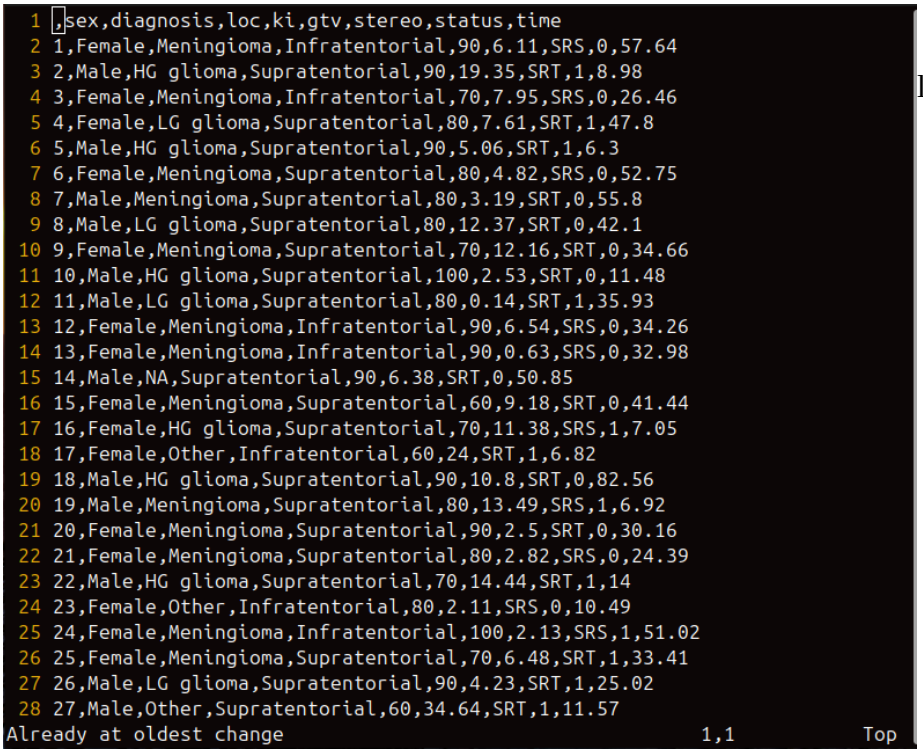
```
ibab@IBAB-RA-Comp203:~/Lab8$ cp ../Lab5/BrainCancer.csv .
ibab@IBAB-RA-Comp203:~/Lab8$ ls
BrainCancer.csv
ibab@IBAB-RA-Comp203:~/Lab8$ vim BrainCAncer.csv
ibab@IBAB-RA-Comp203:~/Lab8$ vim BrainCancer.csv
```

2) We use ***gg*** to go to the top of the file. We press the ***i*** key to let us enter into the insert mode from the normal mode. We can tell this by ***INSERT*** that comes at the bottom of the screen. This allows us to type the sentence ***VIM challenge begins.***

```
,sex,diagnosis,loc,ki,gtv,stereo,status,time
1,Female,Meningioma,Infratentorial,90,6.11,SRS,0,57.64
2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
3,Female,Meningioma,Infratentorial,70,7.95,SRS,0,26.46
4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
6,Female,Meningioma,Supratentorial,80,4.82,SRS,0,52.75
7,Male,Meningioma,Supratentorial,80,3.19,SRT,0,55.8
8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
-- INSERT --                                    1,1           Top
```

```
VIM challenge begins!
,sex,diagnosis,loc,ki,gtv,stereo,status,time
1,Female,Meningioma,Infratentorial,90,6.11,SRS,0,57.64
2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
3,Female,Meningioma,Infratentorial,70,7.95,SRS,0,26.46
4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
6,Female,Meningioma,Supratentorial,80,4.82,SRS,0,52.75
7,Male,Meningioma,Supratentorial,80,3.19,SRT,0,55.8
8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
                                                2,1           Top
```

3) We use the commands: i) ***:set nu*** – gives the line numbers ii) :**%s /Meningioma/LG glioma/g**. This allows us to substitute the word Meningioma with LG glioma globally or throughout the file. I use the key ***u*** to undo all the changes.



```
 1 ,sex,diagnosis,loc,ki,gtv,stereo,status,time
 2 1,Female,Meningioma,Infratentorial,90,6.11,SRS,0,57.64
 3 2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
 4 3,Female,Meningioma,Infratentorial,70,7.95,SRS,0,26.46
 5 4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
 6 5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
 7 6,Female,Meningioma,Supratentorial,80,4.82,SRS,0,52.75
 8 7,Male,Meningioma,Supratentorial,80,3.19,SRT,0,55.8
 9 8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
10 9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
11 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
14 13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
15 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
16 15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
17 16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
18 17,Female,Other,Infratentorial,60,24,SRT,1,6.82
19 18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
20 19,Male,Meningioma,Supratentorial,80,13.49,SRS,1,6.92
21 20,Female,Meningioma,Supratentorial,90,2.5,SRT,0,30.16
22 21,Female,Meningioma,Supratentorial,80,2.82,SRS,0,24.39
23 22,Male,HG glioma,Supratentorial,70,14.44,SRT,1,14
24 23,Female,Other,Infratentorial,80,2.11,SRS,0,10.49
25 24,Female,Meningioma,Infratentorial,100,2.13,SRS,1,51.02
26 25,Female,Meningioma,Supratentorial,70,6.48,SRT,1,33.41
27 26,Male,LG glioma,Supratentorial,90,4.23,SRT,1,25.02
28 27,Male,Other,Supratentorial,60,34.64,SRT,1,11.57
Already at oldest change                                  1,1           Top
```

This is what the file looks like before the changes.

This is how the file looks after substituting Meningioma with LG glioma.

```
 1 ,sex,diagnosis,loc,ki,gtv,stereo,status,time
 2 1,Female,LG glioma,Infratentorial,90,6.11,SRS,0,57.64
 3 2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
 4 3,Female,LG glioma,Infratentorial,70,7.95,SRS,0,26.46
 5 4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
 6 5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
 7 6,Female,LG glioma,Supratentorial,80,4.82,SRS,0,52.75
 8 7,Male,LG glioma,Supratentorial,80,3.19,SRT,0,55.8
 9 8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
10 9,Female,LG glioma,Supratentorial,70,12.16,SRT,0,34.66
11 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,LG glioma,Infratentorial,90,6.54,SRS,0,34.26
14 13,Female,LG glioma,Infratentorial,90,0.63,SRS,0,32.98
15 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
16 15,Female,LG glioma,Supratentorial,60,9.18,SRT,0,41.44
17 16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
18 17,Female,Other,Infratentorial,60,24,SRT,1,6.82
19 18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
20 19,Male,LG glioma,Supratentorial,80,13.49,SRS,1,6.92
21 20,Female,LG glioma,Supratentorial,90,2.5,SRT,0,30.16
22 21,Female,LG glioma,Supratentorial,80,2.82,SRS,0,24.39
23 22,Male,HG glioma,Supratentorial,70,14.44,SRT,1,14
24 23,Female,Other,Infratentorial,80,2.11,SRS,0,10.49
25 24,Female,LG glioma,Infratentorial,100,2.13,SRS,1,51.02
26 25,Female,LG glioma,Supratentorial,70,6.48,SRT,1,33.41
27 26,Male,LG glioma,Supratentorial,90,4.23,SRT,1,25.02
28 27,Male,Other,Supratentorial,60,34.64,SRT,1,11.57
29 28,Male,HG glioma,Supratentorial,70,33.69,SRT,1,0.07
30 29,Male,LG glioma,Supratentorial,60,3.81,SRT,0,36.1
31 30,Female,LG glioma,Supratentorial,90,4.72,SRS,0,65.02
32 31,Female,LG glioma,Supratentorial,80,0.85,SRS,1,6.1
33 32,Male,LG glioma,Supratentorial,90,2.56,SRS,0,44.39
34 33,Female,Other,Infratentorial,70,13.45,SRT,1,10.82
35 34,Male,Other,Infratentorial,80,6.81,SRS,0,57.11
36 35,Female,LG glioma,Supratentorial,90,7.3,SRT,0,5.51
```

4) We use the command :***10d*** to delete the 10th line as it contains the time 34.66.

```
 1 ,sex,diagnosis,loc,ki,gtv,stereo,status,time
 2 1,Female,Meningioma,Infratentorial,90,6.11,SRS,0,57.64
 3 2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
 4 3,Female,Meningioma,Infratentorial,70,7.95,SRS,0,26.46
 5 4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
 6 5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
 7 6,Female,Meningioma,Supratentorial,80,4.82,SRS,0,52.75
 8 7,Male,Meningioma,Supratentorial,80,3.19,SRT,0,55.8
 9 8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
10 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
11 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
12 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
13 13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
14 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
15 15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
16 16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
17 17,Female,Other,Infratentorial,60,24,SRT,1,6.82
18 18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
19 19,Male,Meningioma,Supratentorial,80,13.49,SRS,1,6.92
20 20,Female,Meningioma,Supratentorial,90,2.5,SRT,0,30.16
21 21,Female,Meningioma,Supratentorial,80,2.82,SRS,0,24.39
22 22,Male,HG glioma,Supratentorial,70,14.44,SRT,1,14
:10d                                          10,1          Top
```

5) To copy or yank an entire line(here line 14) we use ***yy*** command. We move down below two lines and paste it using ***p.***

```
 9 8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
10 9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
11 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
14 13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
15 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
16 15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
17 16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
18 17,Female,Other,Infratentorial,60,24,SRT,1,6.82
19 18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
20 19,Male,Meningioma,Supratentorial,80,13.49,SRS,1,6.92
21 20,Female,Meningioma,Supratentorial,90,2.5,SRT,0,30.16
22 21,Female,Meningioma,Supratentorial,80,2.82,SRS,0,24.39
```

Before copying the 14th line.

After copying the 14th line to the 18th position.

```
11 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
14 13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
15 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
16 15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
17 16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
18 17,Female,Other,Infratentorial,60,24,SRT,1,6.82
19 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
20 18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
21 19,Male,Meningioma,Supratentorial,80,13.49,SRS,1,6.92
22 20,Female,Meningioma,Supratentorial,90,2.5,SRT,0,30.16
```

6) To add a line in the 11th line,we go into the insert mode using ***i*** and type and insert the given line.

```
 9 8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
10 9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
11 "Hello from line 11!" 10,Male,HG glioma,Supratentorial,100,2.5
   3,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
```

7) To search for the word SRT, we do ***/SR***T which shows us the line closest to search which contains SRT.
Then we substitute SRT with SRS globally through the file using the command :***%s SRT/SRS/g***

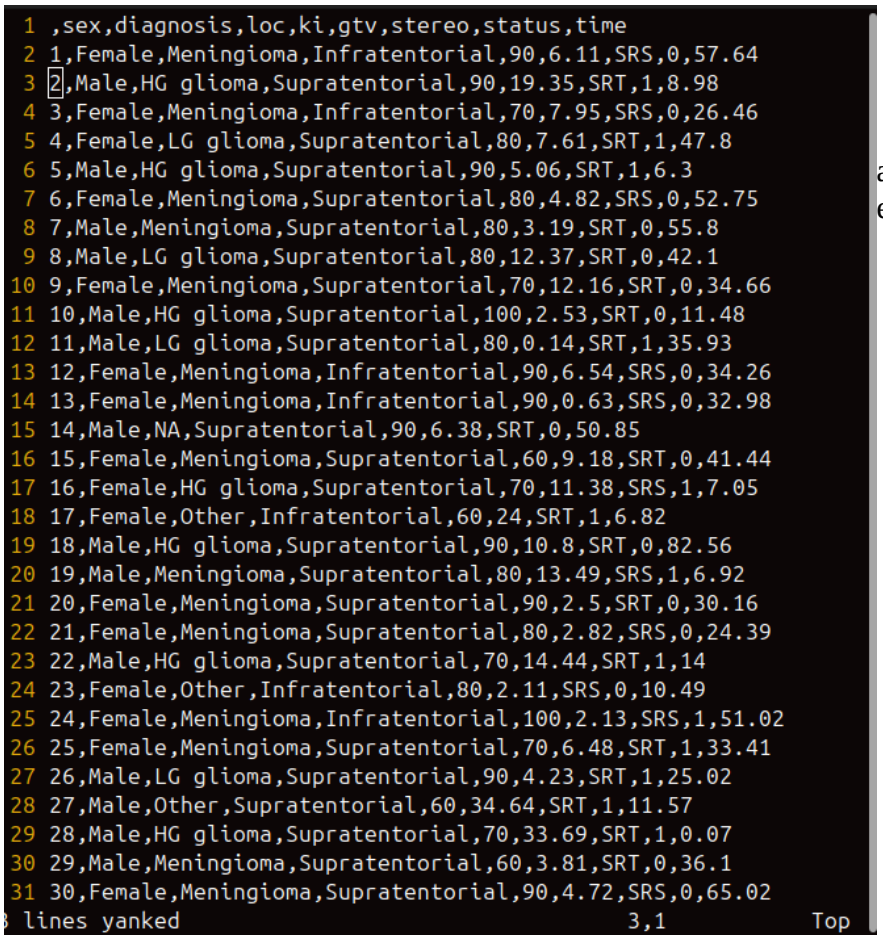
```
46 45,Male,Other,Infratentorial,90,3.12,SRT,0,18.95
47 46,Male,Meningioma,Supratentorial,60,7.09,SRS,1,31.25
48 47,Male,HG glioma,Supratentorial,80,29.27,SRT,0,5.15
49 48,Female,Meningioma,Supratentorial,80,26.31,SRT,1,39.54
50 49,Male,Meningioma,Supratentorial,70,0.97,SRT,1,1.41
51 50,Female,LG glioma,Supratentorial,80,0.19,SRS,0,11.51
52 51,Female,HG glioma,Supratentorial,90,0.04,SRT,0,31.67
53 52,Female,Meningioma,Infratentorial,90,9.24,SRT,0,26.85
/SRT
```

Finding SRT

Substituing SRT with SRS. This is proved by the line at the end saying 65 substitutions done.

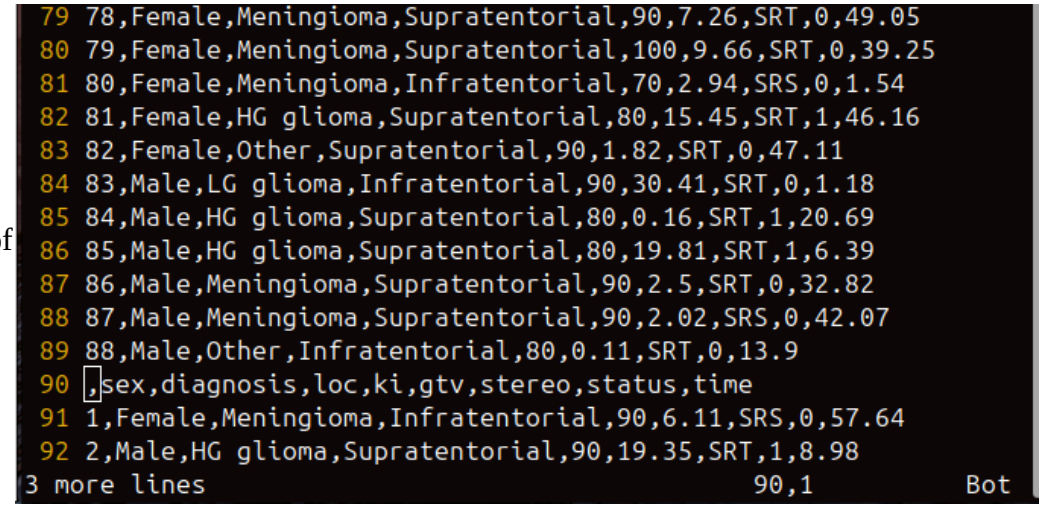
```
59 58,Male,HG glioma,Supratentorial,80,3.75,SRS,1,19.9
60 59,Female,Other,Supratentorial,80,11.83,SRS,1,22.03
61 60,Female,Meningioma,Supratentorial,90,2.47,SRS,0,17.57
62 61,Female,HG glioma,Supratentorial,80,12.08,SRS,1,7.25
63 62,Male,Meningioma,Supratentorial,80,11.51,SRS,1,14.62
64 63,Female,HG glioma,Supratentorial,40,22.87,SRS,1,3.38
65 64,Male,Meningioma,Supratentorial,80,4.77,SRS,0,67.38
66 65,Male,LG glioma,Supratentorial,80,9.58,SRS,0,78.75
67 66,Female,Meningioma,Supratentorial,100,4,SRS,0,52.23
68 67,Female,HG glioma,Supratentorial,80,7.59,SRS,1,4.56
69 68,Male,Other,Infratentorial,70,0.01,SRS,0,23.67
70 69,Female,Meningioma,Supratentorial,80,6.93,SRS,0,10.1
71 70,Female,Meningioma,Supratentorial,70,3.63,SRS,0,32.82
72 71,Male,Meningioma,Supratentorial,70,8.45,SRS,0,19.41
73 72,Male,Meningioma,Supratentorial,80,20.93,SRS,1,31.15
74 73,Male,LG glioma,Supratentorial,90,2.64,SRS,0,20.13
75 74,Female,HG glioma,Supratentorial,80,0.19,SRS,1,11.02
76 75,Male,Other,Supratentorial,100,24.91,SRS,0,19.74
77 76,Female,Meningioma,Supratentorial,80,31.74,SRS,0,57.25
78 77,Female,Meningioma,Supratentorial,80,2.39,SRS,0,73.74
79 78,Female,Meningioma,Supratentorial,90,7.26,SRS,0,49.05
80 79,Female,Meningioma,Supratentorial,100,9.66,SRS,0,39.25
81 80,Female,Meningioma,Infratentorial,70,2.94,SRS,0,1.54
82 81,Female,HG glioma,Supratentorial,80,15.45,SRS,1,46.16
83 82,Female,Other,Supratentorial,90,1.82,SRS,0,47.11
84 83,Male,LG glioma,Infratentorial,90,30.41,SRS,0,1.18
85 84,Male,HG glioma,Supratentorial,80,0.16,SRS,1,20.69
86 85,Male,HG glioma,Supratentorial,80,19.81,SRS,1,6.39
87 86,Male,Meningioma,Supratentorial,90,2.5,SRS,0,32.82
88 87,Male,Meningioma,Supratentorial,90,2.02,SRS,0,42.07
89 88,Male,Other,Infratentorial,80,0.11,SRS,0,13.9
65 substitutions on 65 lines                    89,1          Bot
```

8) To yank or copy the first three line in the file we use ***:1,3y*** to copy them. Then using ***shift+g or G*** we go to the end of the file where we use ***p*** to paste the three lines at the end of the file.



Here we yank the three lines and are confirmed by the line at end saying 3 lines yanked.

Here the copies lines are added at the end of the files and it says that three lines are added.



9) We enter the Visual mode using ***v*** key and start selecting the first column in a visual block using ***ctrl+v*** . We copy the first column using ***y*** and paste it at the cursor position using ***p or shift+p***. This creates a copy of the first column. Once again we select the first column using the ***ctrl+v*** and r***eplace it with a space using r followed by space.*** **This creates the first space.** We then select the

first column once again using v***isual block or ctrl+v*** and copy the space column. We then paste it once again at the cursor. T***his creates two spaces before the orignal first column***

```
  ,sex,diagnosis,loc,ki,gtv,stereo,status,time
1,Female,Meningioma,Infratentorial,90,6.11,SRS,0,57.64
2,Male,HG glioma,Supratentorial,90,19.35,SRT,1,8.98
3,Female,Meningioma,Infratentorial,70,7.95,SRS,0,26.46
4,Female,LG glioma,Supratentorial,80,7.61,SRT,1,47.8
5,Male,HG glioma,Supratentorial,90,5.06,SRT,1,6.3
6,Female,Meningioma,Supratentorial,80,4.82,SRS,0,52.75
7,Male,Meningioma,Supratentorial,80,3.19,SRT,0,55.8
8,Male,LG glioma,Supratentorial,80,12.37,SRT,0,42.1
9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
16,Female,HG glioma,Supratentorial,70,11.38,SRS,1,7.05
17,Female,Other,Infratentorial,60,24,SRT,1,6.82
18,Male,HG glioma,Supratentorial,90,10.8,SRT,0,82.56
```

10) We first go to the 10th line and press i to enter into the insert mode and then enter the line “The cat sat on the mat. Another cat was watching. The cat did not move.”

We search for cat using ***/cat*** and then substitute it using ***:s/cat/tiger/g*** in the entire line.

```
44,Male,Meningioma,Supratentorial,80,12.63,SRT,1,4.16
45,Male,Other,Infratentorial,90,3.12,SRT,0,18.95
46,Male,Meningioma,Supratentorial,60,7.09,SRS,1,31.25
47,Male,HG glioma,Supratentorial,80,29.27,SRT,0,5.15
48,Female,Meningioma,Supratentorial,80,26.31,SRT,1,39.54
"The cat sat on the mat. Another cat was watching. The cat did not move." 49,Male,Meningioma,Supratentorial,70,0.97,SRT,1,1.41
50,Female,LG glioma,Supratentorial,80,0.19,SRS,0,11.51
51,Female,HG glioma,Supratentorial,90,0.04,SRT,0,31.67
52,Female,Meningioma,Infratentorial,90,9.24,SRT,0,26.85
53,Male,HG glioma,Supratentorial,90,2.5,SRT,1,9.77
54,Male,Meningioma,Infratentorial,80,24.41,SRT,0,39.54
55,Female,HG glioma,Supratentorial,80,0.63,SRT,1,16.92
```

```
47 46,Male,Meningioma,Supratentorial,60,7.09,SRS,1,31.25
48 47,Male,HG glioma,Supratentorial,80,29.27,SRT,0,5.15
49 48,Female,Meningioma,Supratentorial,80,26.31,SRT,1,39.54
50 "The tiger sat on the mat. Another tiger was watching. The tiger did not move." 49,Male,Meningioma,Supratentorial,70,0.97,SRT,1,1.41
51 50,Female,LG glioma,Supratentorial,80,0.19,SRS,0,11.51
52 51,Female,HG glioma,Supratentorial,90,0.04,SRT,0,31.67
53 52,Female,Meningioma,Infratentorial,90,9.24,SRT,0,26.85
```

11) We first go to the 70th line and press i to enter into the insert mode and then enter the line “This is an important reminder.”

We search for important using ***/important*** and then substitute it using ***:s/important/critical*** .
This replaces important with critical.

```
68 67,Female,HG glioma,Supratentorial,80,7.59,SRT,1,4.56
69 68,Male,Other,Infratentorial,70,0.01,SRS,0,23.67
70 "This is an important reminder." 69,Female,Meningioma,Supratentorial,
   80,6.93,SRS,0,10.1
71 70,Female,Meningioma,Supratentorial,70,3.63,SRT,0,32.82
72 71,Male,Meningioma,Supratentorial,70,8.45,SRT,0,19.41
73 72,Male,Meningioma,Supratentorial,80,20.93,SRT,1,31.15
74 73,Male,LG glioma,Supratentorial,90,2.64,SRT,0,20.13
75 74,Female,HG glioma,Supratentorial,80,0.19,SRT,1,11.02
```

Before replacing.

After replacing important with critical.

```
68 67,Female,HG glioma,Supratentorial,80,7.59,SRT,1,4.56
69 68,Male,Other,Infratentorial,70,0.01,SRS,0,23.67
70 "This is an critical reminder." 69,Female,Meningioma,Supratentorial,8
   0,6.93,SRS,0,10.1
71 70,Female,Meningioma,Supratentorial,70,3.63,SRT,0,32.82
72 71,Male,Meningioma,Supratentorial,70,8.45,SRT,0,19.41
```

12) We start by keeping the cursor on the 13th line.
We can jump to the and of the file or the last line using=g ***shift + g or G.***
Now, to go back to the 13th line without scrolling we use ***:13 then press enter*** which takes us directly to the 13th line.

```
10 9,Female,Meningioma,Supratentorial,70,12.16,SRT,0,34.66
11 10,Male,HG glioma,Supratentorial,100,2.53,SRT,0,11.48
12 11,Male,LG glioma,Supratentorial,80,0.14,SRT,1,35.93
13 12,Female,Meningioma,Infratentorial,90,6.54,SRS,0,34.26
14 13,Female,Meningioma,Infratentorial,90,0.63,SRS,0,32.98
15 14,Male,NA,Supratentorial,90,6.38,SRT,0,50.85
16 15,Female,Meningioma,Supratentorial,60,9.18,SRT,0,41.44
```

13) We go to the end of the file using ***shift+g***. Then using the i key we enter the insert mode and enter the line ”T***he quick brown fox (who was very quick) jumps over the lazy dog.”*** at the end of the file.
Then ***i*** use the visual block to select the text inside the parentheses (including the parentheses) and press to delete the selected test. We are then left with a new line.

Inserting a new line at the end of file in the insert mode.

```
85 84,Male,HG glioma,Supratentorial,80,0.16,SRT,1,20.69
86 85,Male,HG glioma,Supratentorial,80,19.81,SRT,1,6.39
87 86,Male,Meningioma,Supratentorial,90,2.5,SRT,0,32.82
88 87,Male,Meningioma,Supratentorial,90,2.02,SRS,0,42.07
89 88,Male,Other,Infratentorial,80,0.11,SRT,0,13.9
90 "The quick brown fox(who was very quick)jumps over the lazy dog."
                                                    90,65         Bot
```

```
85 84,Male,HG glioma,Supratentorial,80,0.16,SRT,1,20.69
86 85,Male,HG glioma,Supratentorial,80,19.81,SRT,1,6.39
87 86,Male,Meningioma,Supratentorial,90,2.5,SRT,0,32.82
88 87,Male,Meningioma,Supratentorial,90,2.02,SRS,0,42.07
89 88,Male,Other,Infratentorial,80,0.11,SRT,0,13.9
90 "The quick brown fox jumps over the lazy dog."
```

We delete the selected piece of text using visual block then d key.

14) We use the ***key A*** to go the end of line and get automatically into the insert mode into the next character. We can then simply enter ***-end of challenge*** at the end of the line.

```
85 84,Male,HG glioma,Supratentorial,80,0.16,SRT,1,20.69
86 85,Male,HG glioma,Supratentorial,80,19.81,SRT,1,6.39
87 86,Male,Meningioma,Supratentorial,90,2.5,SRT,0,32.82
88 87,Male,Meningioma,Supratentorial,90,2.02,SRS,0,42.07
89 88,Male,Other,Infratentorial,80,0.11,SRT,0,13.9 -end of challenge
~
```

15) For the sub questions 1, 2, 3,5 we use the insert option. We press the key i and enter the insert mode.

```
This  line    has  too   many   spaces.
Replace    tabs    with    single spaces.
    This line starts with too many spaces.
------------------------------------------------
the quick brown fox jumps ovr the lazy dog.
Vim is a amaziing text editor.
i enjoy learning vim.
python is fun But also chalenging.
------------------------------------------------
Hello world this sentence needs a period
What is your name
Yes   , I   like apples
Wait...this  is  too...many dots...
------------------------------------------------
I really just literally totally want to say that this is fine.
Please delete the word TODO anywhere it appears.
TODO I will fix this line.
------------------------------------------------
Name     Age      City
Alice     24  New York
Bob    32      Los Angeles
Charlie  19       Chicago
------------------------------------------------

~
```

ORIGINAL FILE

i) Fix spacing issues in the text in the lines 1-3.

```
This line has too many spaces.
Replace tabs with single spaces.
This line starts with too many spaces.
```

```
------------------------------------------------
The quick brown fox jumps over the lazy dog.
Vim is an amaziing text editor.
I am enjoying learning vim.
Python is fun but also challenging.
------------------------------------------------
```

ii) Fix any capitalization and typographical errors in lines 5-8.

```
Hello,world. This sentence needs a period.
What is your name?
Yes, I like apples.
Wait, this is too many dots.
```

(iii) Correct punctuation errors in lines 10-13.

Remove unwanted words in lines . This was done using the visual block, selecting the unwanted text and using d key to delete.

```
I want to say that this is fine.
Please delete the word anywhere it appears.
I will fix this line.
```

```
Name     Age   City
Alice    24    New York
Bob      32    Los Angeles
Charlie  19    Chicago
```

(v) Fix alignment issues in lines 19-22.