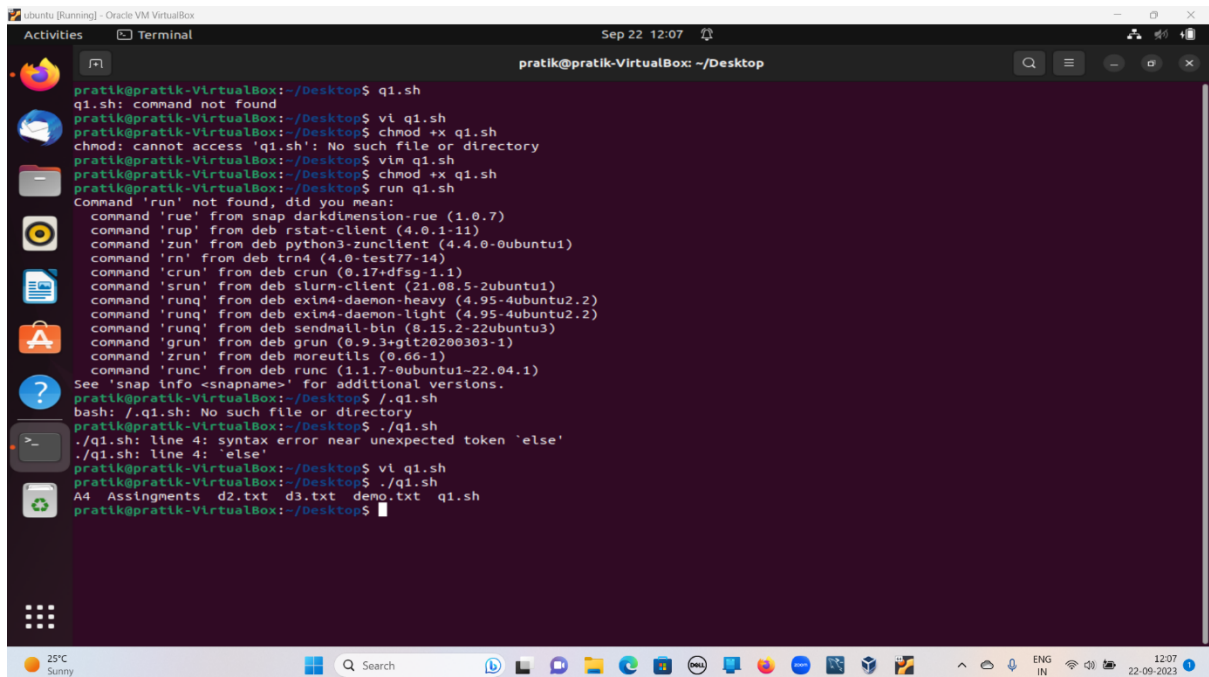


Q1)

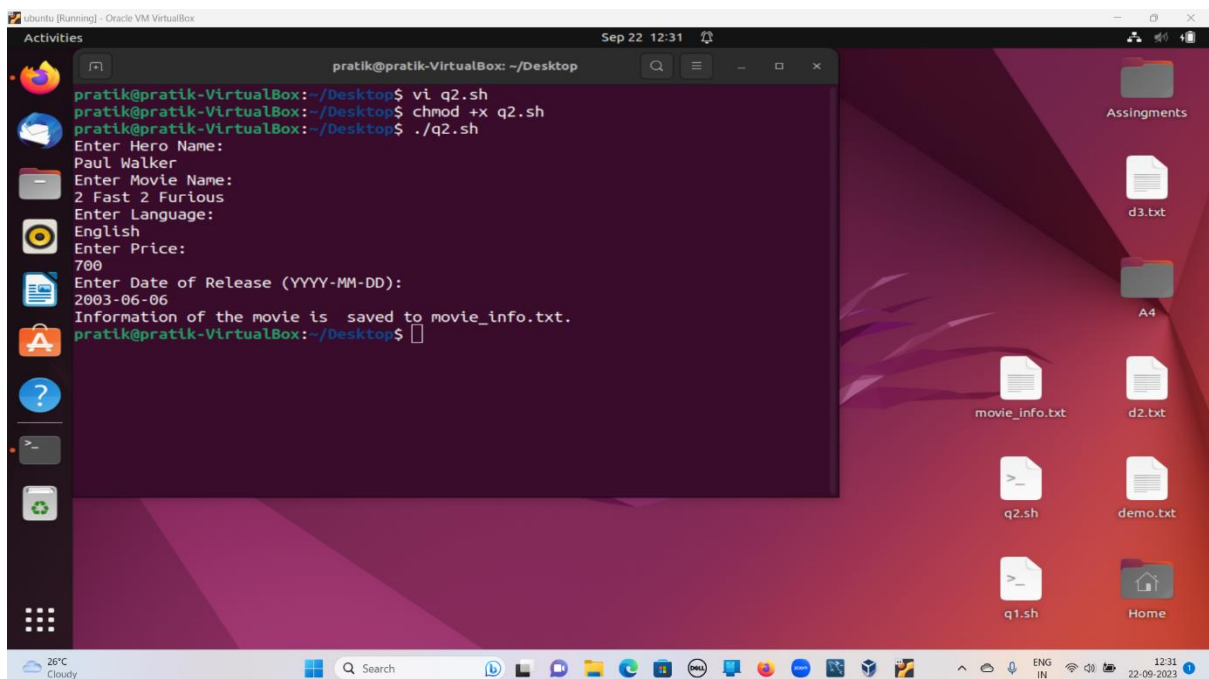
Ans=



```
pratik@pratik-VirtualBox: ~/Desktop$ q1.sh
q1.sh: command not found
pratik@pratik-VirtualBox: ~/Desktop$ vi q1.sh
pratik@pratik-VirtualBox: ~/Desktop$ chmod +x q1.sh
chmod: cannot access 'q1.sh': No such file or directory
pratik@pratik-VirtualBox: ~/Desktop$ vim q1.sh
pratik@pratik-VirtualBox: ~/Desktop$ chmod +x q1.sh
pratik@pratik-VirtualBox: ~/Desktop$ run q1.sh
Command 'run' not found, did you mean:
  command 'rue' from snap darkdimension-rue (1.0.7)
  command 'rup' from deb rstat-client (4.0.1-11)
  command 'zun' from deb python3-zunclient (4.4.0-0ubuntu1)
  command 'rn' from deb trn4 (4.0-test77-14)
  command 'crun' from deb crun (0.17+dfsg-1.1)
  command 'srun' from deb slurm-client (21.08.5-2ubuntu1)
  command 'runq' from deb exim4-daemon-heavy (4.95-4ubuntu2.2)
  command 'runq' from deb exim4-daemon-light (4.95-4ubuntu2.2)
  command 'runq' from deb sendmail-bin (8.15.2-2ubuntu3)
  command 'grun' from deb grun (0.9.3+git20200303-1)
  command 'zrun' from deb moreutils (0.66-1)
  command 'runc' from deb runc (1.1.7-0ubuntu1-22.04.1)
See 'snap info <snapname>' for additional versions.
pratik@pratik-VirtualBox: ~/Desktop$ ./q1.sh
bash: ./q1.sh: No such file or directory
pratik@pratik-VirtualBox: ~/Desktop$ ./q1.sh
./q1.sh: line 4: syntax error near unexpected token `else'
./q1.sh: line 4: `else'
pratik@pratik-VirtualBox: ~/Desktop$ vi q1.sh
pratik@pratik-VirtualBox: ~/Desktop$ ./q1.sh
A4 Assignments d2.txt d3.txt demo.txt q1.sh
pratik@pratik-VirtualBox: ~/Desktop$
```

Q2)

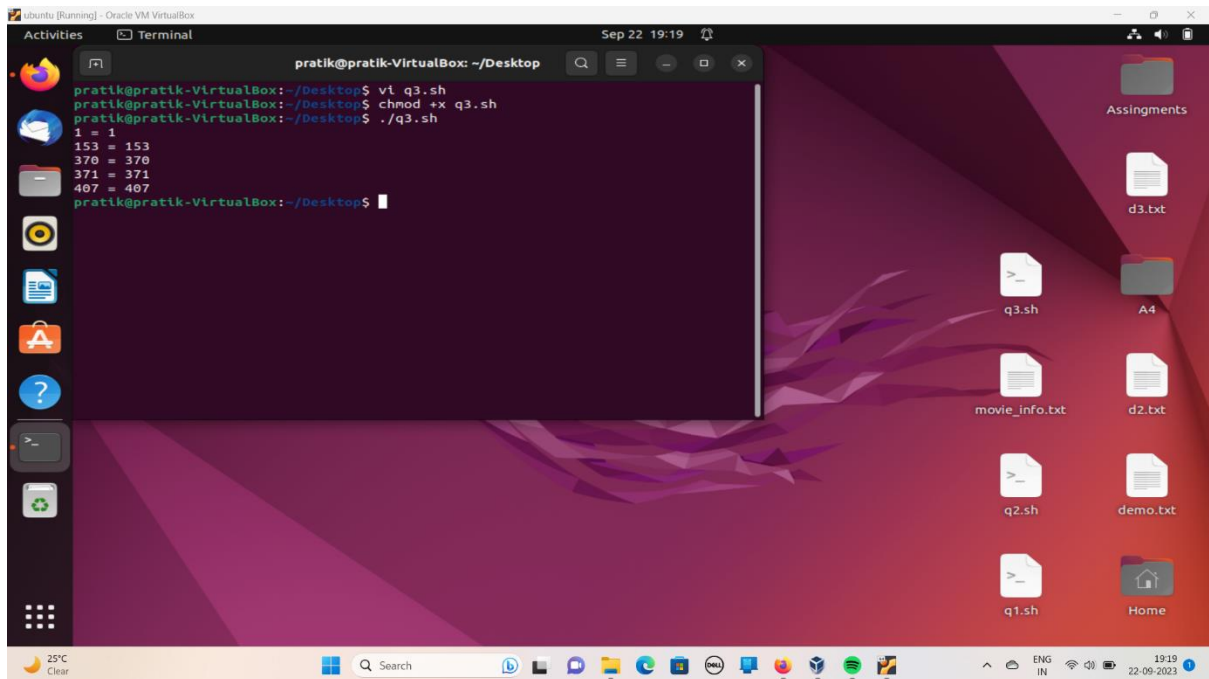
Ans=



```
pratik@pratik-VirtualBox: ~/Desktop$ vi q2.sh
pratik@pratik-VirtualBox: ~/Desktop$ chmod +x q2.sh
pratik@pratik-VirtualBox: ~/Desktop$ ./q2.sh
Enter Hero Name:
Paul Walker
Enter Movie Name:
2 Fast 2 Furious
Enter Language:
English
Enter Price:
700
Enter Date of Release (YYYY-MM-DD):
2003-06-06
Information of the movie is saved to movie_info.txt.
pratik@pratik-VirtualBox: ~/Desktop$
```

Q3)

Ans=



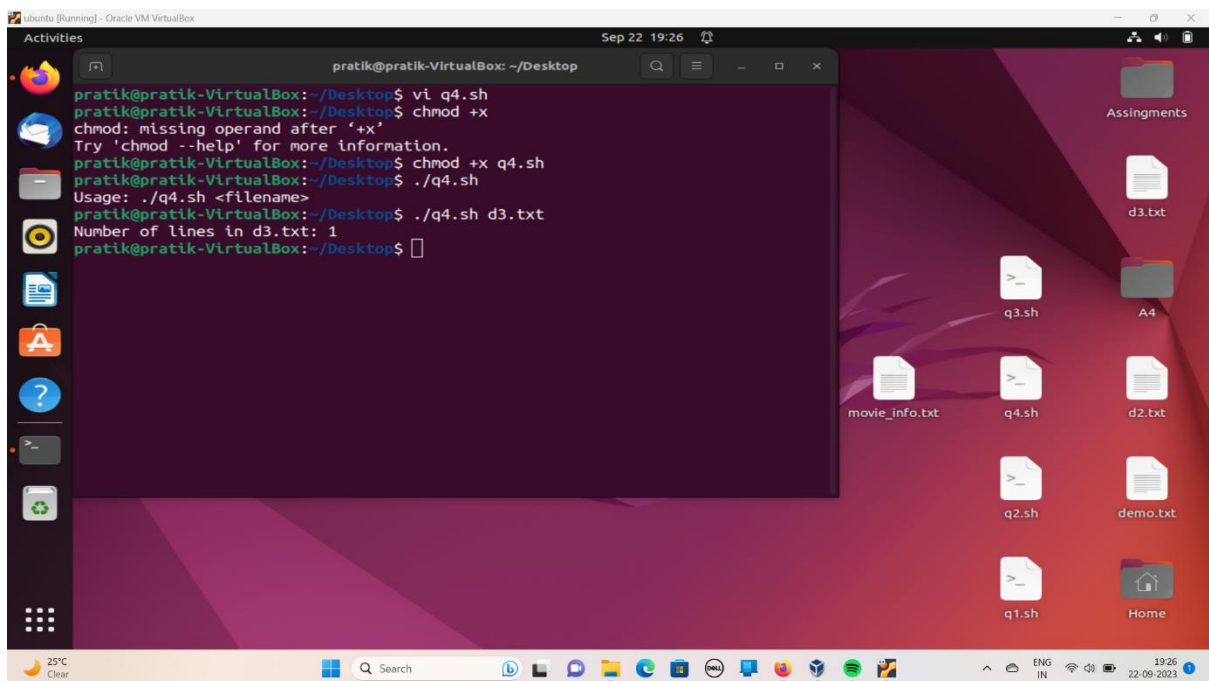
The screenshot shows a terminal window titled "pratik@pratik-VirtualBox: ~/Desktop" with the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop$ vi q3.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q3.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q3.sh
1 = 1
153 = 153
370 = 370
371 = 371
407 = 407
pratik@pratik-VirtualBox:~/Desktop$
```

The background shows a desktop environment with a purple and red geometric pattern. Files on the desktop include "Assingments", "d3.txt", "q3.sh", "A4", "movie_info.txt", "d2.txt", "q2.sh", "demo.txt", "q1.sh", and "Home". The system tray at the bottom shows the date "Sep 22 19:19" and temperature "25°C Clear".

Q4)

Ans=



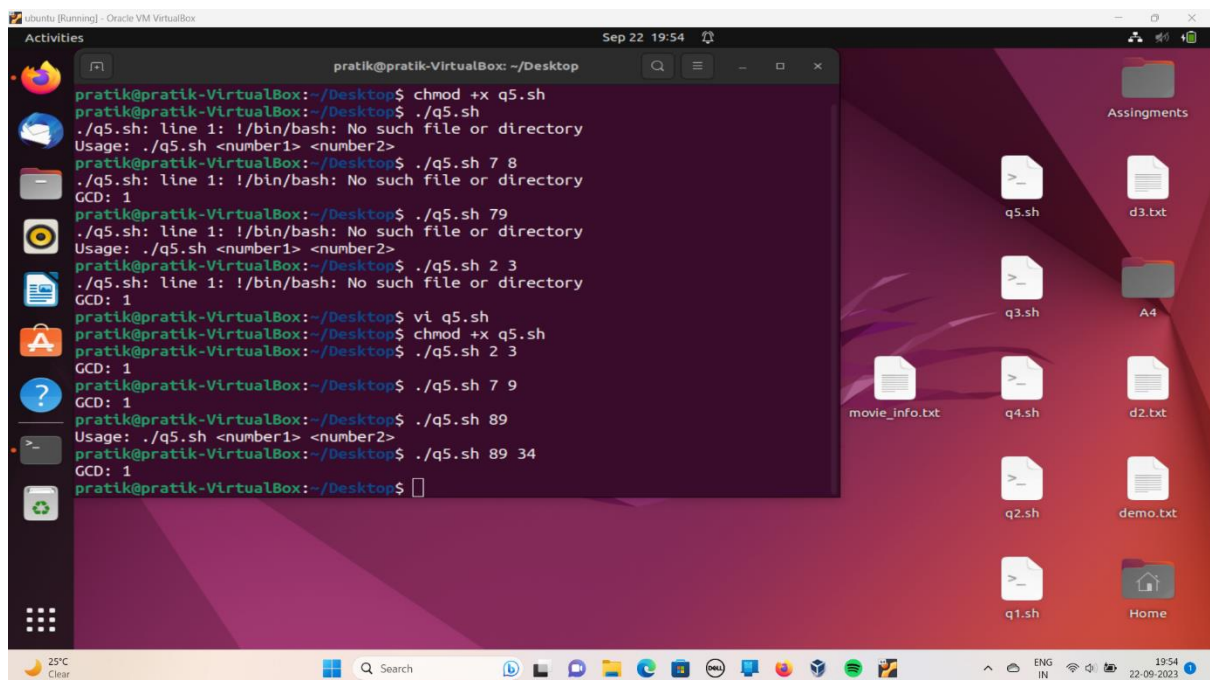
The screenshot shows a terminal window titled "pratik@pratik-VirtualBox: ~/Desktop" with the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop$ vi q4.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x
chmod: missing operand after '+x'
Try 'chmod --help' for more information.
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q4.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q4.sh
Usage: ./q4.sh <filename>
pratik@pratik-VirtualBox:~/Desktop$ ./q4.sh d3.txt
Number of llnes in d3.txt: 1
pratik@pratik-VirtualBox:~/Desktop$
```

The background shows the same desktop environment as the previous screenshot. Files on the desktop include "Assingments", "d3.txt", "q3.sh", "A4", "movie_info.txt", "q4.sh", "d2.txt", "q2.sh", "demo.txt", "q1.sh", and "Home". The system tray at the bottom shows the date "Sep 22 19:26" and temperature "25°C Clear".

Q5)

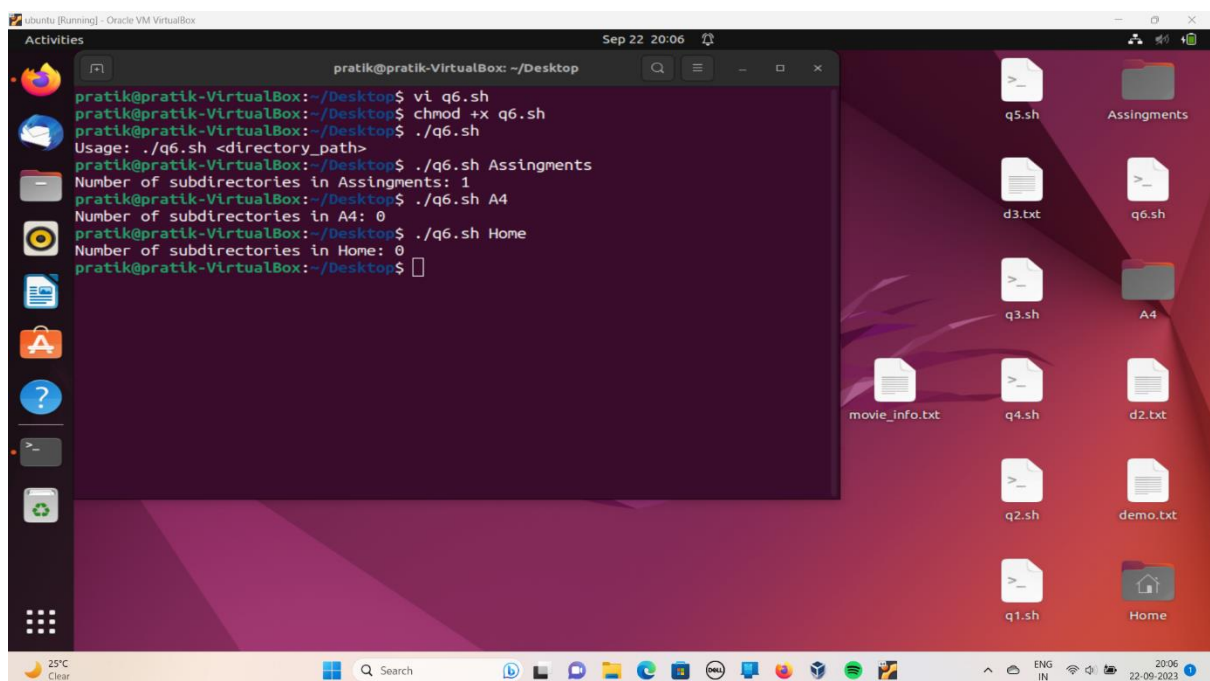
Ans=



```
pratik@pratik-VirtualBox: ~/Desktop
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q5.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh
./q5.sh: line 1: !/bin/bash: No such file or directory
Usage: ./q5.sh <number1> <number2>
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 7 8
./q5.sh: line 1: !/bin/bash: No such file or directory
GCD: 1
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 79
./q5.sh: line 1: !/bin/bash: No such file or directory
Usage: ./q5.sh <number1> <number2>
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 2 3
./q5.sh: line 1: !/bin/bash: No such file or directory
GCD: 1
pratik@pratik-VirtualBox:~/Desktop$ vi q5.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q5.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 2 3
GCD: 1
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 7 9
GCD: 1
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 89
Usage: ./q5.sh <number1> <number2>
pratik@pratik-VirtualBox:~/Desktop$ ./q5.sh 89 34
GCD: 1
pratik@pratik-VirtualBox:~/Desktop$
```

Q6)

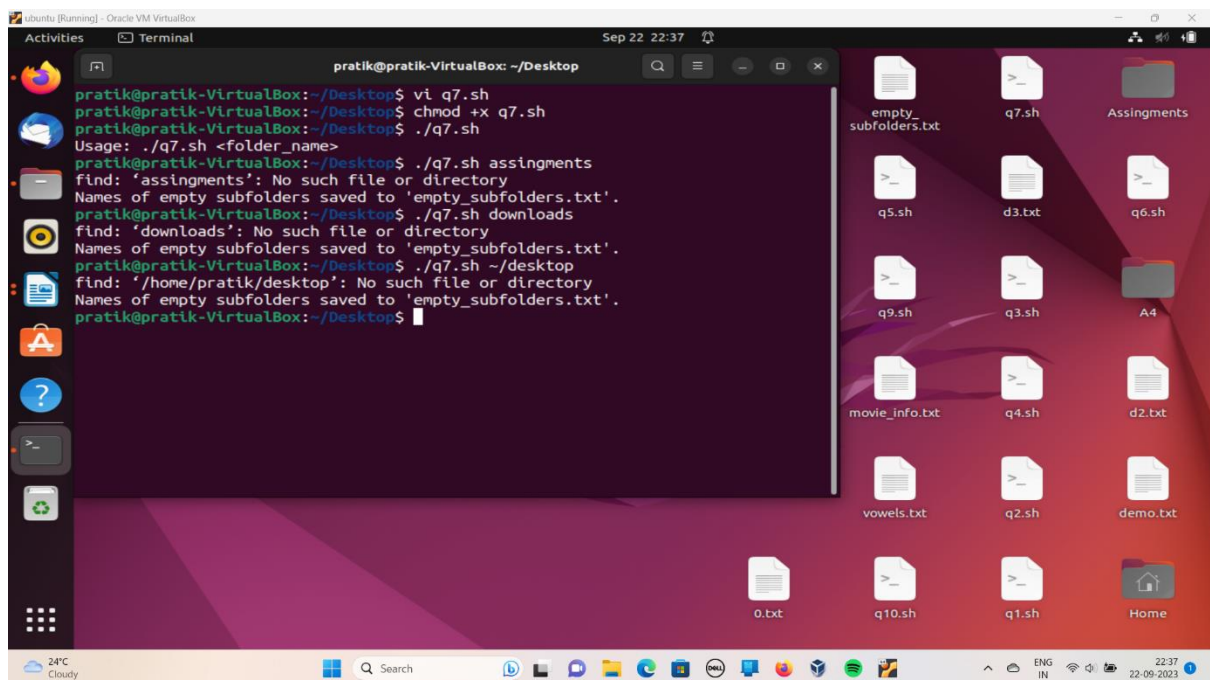
Ans=



```
pratik@pratik-VirtualBox: ~/Desktop
pratik@pratik-VirtualBox:~/Desktop$ vi q6.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q6.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q6.sh
Usage: ./q6.sh <directory_path>
pratik@pratik-VirtualBox:~/Desktop$ ./q6.sh Assingments
Number of subdirectories in Assingments: 1
pratik@pratik-VirtualBox:~/Desktop$ ./q6.sh A4
Number of subdirectories in A4: 0
pratik@pratik-VirtualBox:~/Desktop$ ./q6.sh Home
Number of subdirectories in Home: 0
pratik@pratik-VirtualBox:~/Desktop$
```

Q7)

Ans=

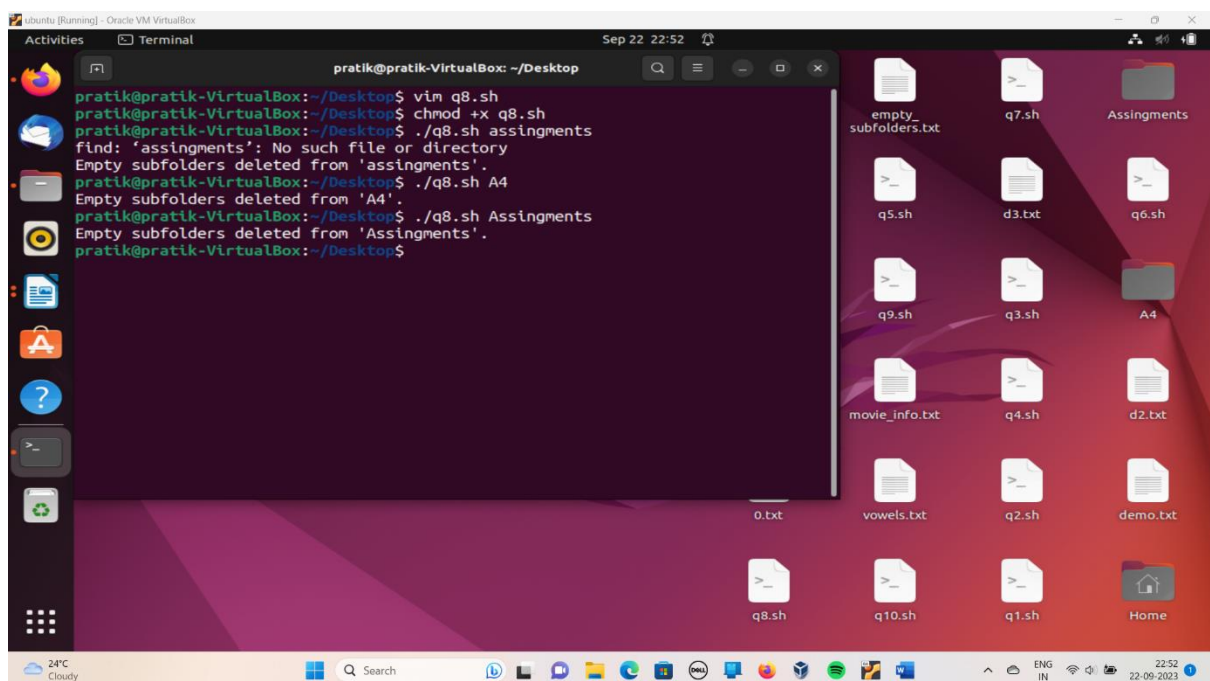


The screenshot shows a Linux desktop environment. A terminal window is open, displaying the execution of a shell script named `q7.sh`. The script is being run from the `~/Desktop` directory. The output shows that the script finds no such file or directory for `assingments`, `downloads`, and `~/desktop`, and saves the names of empty subfolders to `empty_subfolders.txt`. A file manager window is also open, showing a grid of files and folders on the desktop, including `empty_subfolders.txt`, `q7.sh`, `Assingments`, `q5.sh`, `d3.txt`, `q6.sh`, `q9.sh`, `q3.sh`, `A4`, `movie_info.txt`, `q4.sh`, `d2.txt`, `vowels.txt`, `q2.sh`, `demo.txt`, `0.txt`, `q10.sh`, `q1.sh`, and `Home`.

```
pratik@pratik-VirtualBox: ~/Desktop
pratik@pratik-VirtualBox:~/Desktop$ vi q7.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q7.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q7.sh
Usage: ./q7.sh <folder_name>
pratik@pratik-VirtualBox:~/Desktop$ ./q7.sh assingments
find: 'assingments': No such file or directory
Names of empty subfolders saved to 'empty_subfolders.txt'.
pratik@pratik-VirtualBox:~/Desktop$ ./q7.sh downloads
find: 'downloads': No such file or directory
Names of empty subfolders saved to 'empty_subfolders.txt'.
pratik@pratik-VirtualBox:~/Desktop$ ./q7.sh ~/desktop
find: '/home/pratik/desktop': No such file or directory
Names of empty subfolders saved to 'empty_subfolders.txt'.
pratik@pratik-VirtualBox:~/Desktop$
```

Q8)

Ans=

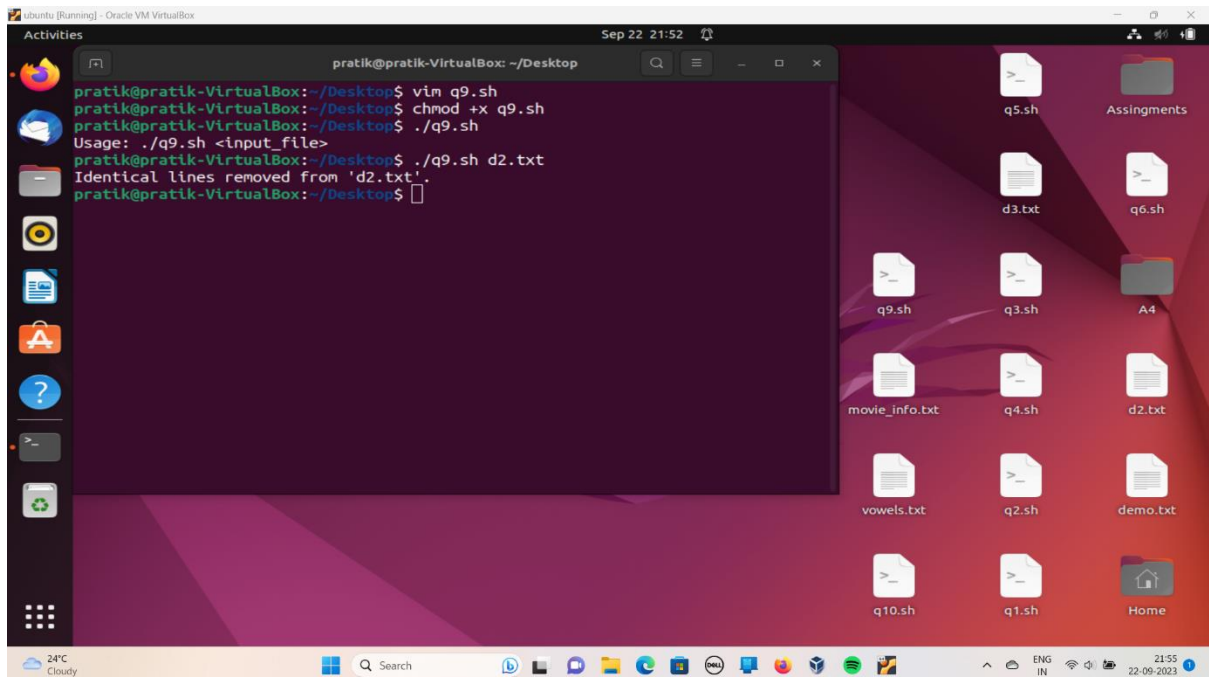


The screenshot shows a Linux desktop environment. A terminal window is open, displaying the execution of a shell script named `q8.sh`. The script is being run from the `~/Desktop` directory. The output shows that the script finds no such file or directory for `assingments`, `A4`, and `Assingments`, and deletes empty subfolders from these locations. A file manager window is also open, showing a grid of files and folders on the desktop, including `empty_subfolders.txt`, `q7.sh`, `Assingments`, `q5.sh`, `d3.txt`, `q6.sh`, `q9.sh`, `q3.sh`, `A4`, `movie_info.txt`, `q4.sh`, `d2.txt`, `vowels.txt`, `q2.sh`, `demo.txt`, `0.txt`, `q8.sh`, `q10.sh`, `q1.sh`, and `Home`.

```
pratik@pratik-VirtualBox: ~/Desktop
pratik@pratik-VirtualBox:~/Desktop$ vim q8.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q8.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q8.sh assingments
find: 'assingments': No such file or directory
Empty subfolders deleted from 'assingments'.
pratik@pratik-VirtualBox:~/Desktop$ ./q8.sh A4
Empty subfolders deleted from 'A4'.
pratik@pratik-VirtualBox:~/Desktop$ ./q8.sh Assingments
Empty subfolders deleted from 'Assingments'.
pratik@pratik-VirtualBox:~/Desktop$
```


Q9)

Ans=



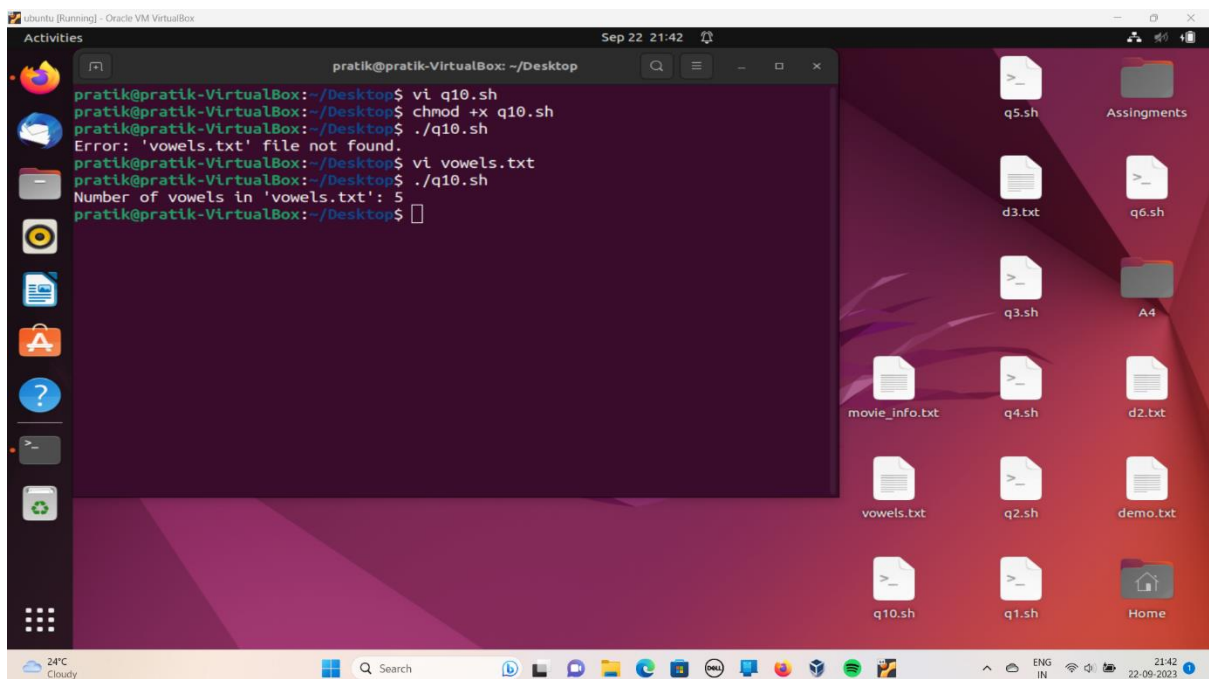
The screenshot shows a terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop'. The user has executed the following commands:

```
pratik@pratik-VirtualBox:~/Desktop$ vim q9.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q9.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q9.sh
Usage: ./q9.sh <input_file>
pratik@pratik-VirtualBox:~/Desktop$ ./q9.sh d2.txt
Identical lines removed from 'd2.txt'.
pratik@pratik-VirtualBox:~/Desktop$
```

The desktop background is a red and purple abstract design. Various files and folders are visible on the desktop, including 'q5.sh', 'Assingments', 'd3.txt', 'q6.sh', 'q9.sh', 'q3.sh', 'A4', 'movie_info.txt', 'q4.sh', 'd2.txt', 'vowels.txt', 'q2.sh', 'demo.txt', 'q10.sh', 'q1.sh', and 'Home'.

Q10)

Ans=



The screenshot shows a terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop'. The user has executed the following commands:

```
pratik@pratik-VirtualBox:~/Desktop$ vi q10.sh
pratik@pratik-VirtualBox:~/Desktop$ chmod +x q10.sh
pratik@pratik-VirtualBox:~/Desktop$ ./q10.sh
Error: 'vowels.txt' file not found.
pratik@pratik-VirtualBox:~/Desktop$ vi vowels.txt
pratik@pratik-VirtualBox:~/Desktop$ ./q10.sh
Number of vowels in 'vowels.txt': 5
pratik@pratik-VirtualBox:~/Desktop$
```

The desktop background is a red and purple abstract design. Various files and folders are visible on the desktop, including 'q5.sh', 'Assingments', 'd3.txt', 'q6.sh', 'q3.sh', 'A4', 'movie_info.txt', 'q4.sh', 'd2.txt', 'vowels.txt', 'q2.sh', 'demo.txt', 'q10.sh', 'q1.sh', and 'Home'.