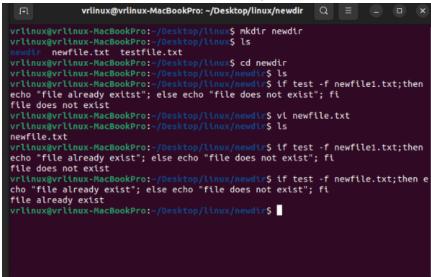
Exercise:

Question 1:

1)Create a file in a new directory using vi editor and ensure the filename doesn't exist already using shell commands.

Answer:

- Create the new directory using the mkdir command.
- Check if the file already exists in the directory using the test command. For example, to check if a file named "newfile.txt" already exists in the "newdir" directory.



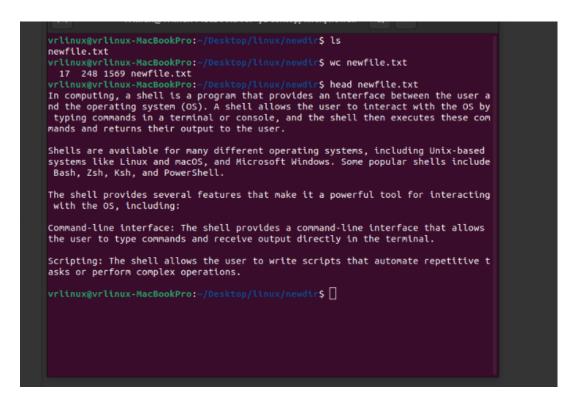
2)Get the Absolute path and relative path of the file you created in Question 1. vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir\$ pwd /home/vrlinux/Desktop/linux/newdir

vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir\$

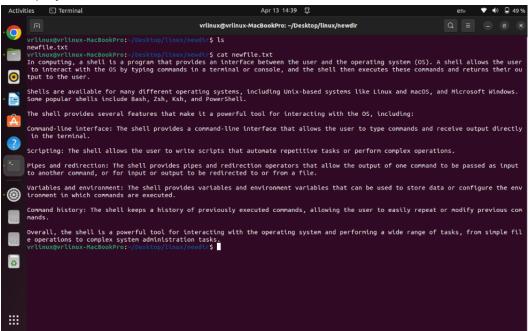
```
vrlinux@vrlinux-MacBookPro: ~/Desktop/linux/newdir
vrlinux@vrlinux-MacBookPro:~/Desktop/linux$ ls
newdir newfile.txt testfile.txt
vrlinux@vrlinux-MacBookPro:~/Desktop/linux$ cd newdir
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ ls
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ if test -f newfile1.txt;t
      "file already exitst"; else echo "file does not exist"; fi
file does not exist
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ vi newfile.txt
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ ls
newfile.txt
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ if test -f newfile1.txt;t
echo "file already exist"; else echo "file does not exist"; fi
file does not exist
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ if test -f newfile.txt;th
cho "file already exist"; else echo "file does not exist"; fi
file already exist
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ pwd
/home/vrlinux/Desktop/linux/newdir
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ ^C
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$ pwd
/home/vrlinux/Desktop/linux/newdir
vrlinux@vrlinux-MacBookPro:~/Desktop/linux/newdir$
```

3)Select a random file and do the following:

- a. Count the no. of lines, words in the file
- b. Display the list 10 lines of a file



c. Display the entire file



d. Search a word 'X' in the entire file and display the lines with it.

