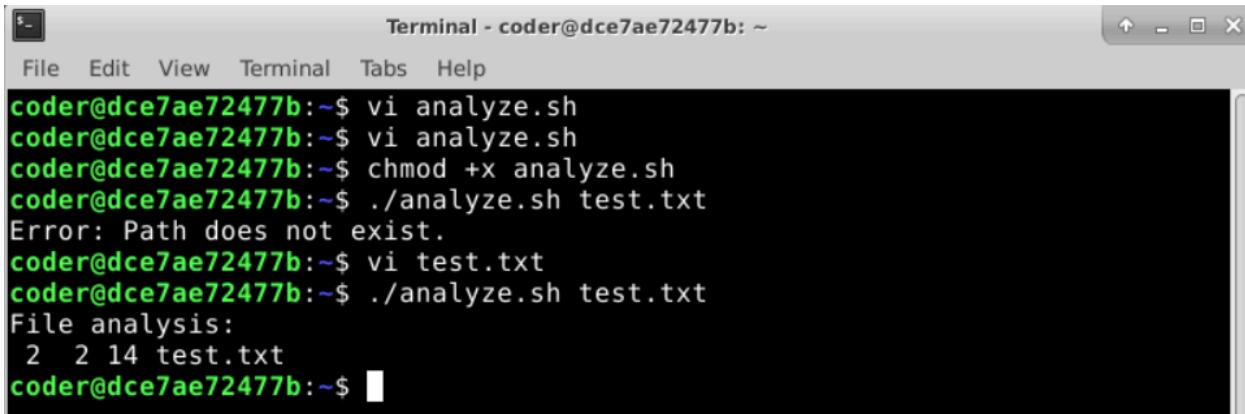


QUESTION 1 ANSWERS



The terminal window shows the following session:

```
Terminal - coder@dce7ae72477b: ~
File Edit View Terminal Tabs Help
coder@dce7ae72477b:~$ vi analyze.sh
coder@dce7ae72477b:~$ vi analyze.sh
coder@dce7ae72477b:~$ chmod +x analyze.sh
coder@dce7ae72477b:~$ ./analyze.sh test.txt
Error: Path does not exist.
coder@dce7ae72477b:~$ vi test.txt
coder@dce7ae72477b:~$ ./analyze.sh test.txt
File analysis:
 2  2 14 test.txt
coder@dce7ae72477b:~$
```

```
#!/bin/bash

if [ $# -ne 1 ]; then
    echo "Error: Exactly one argument required."
    exit 1
fi

path=$1

if [ ! -e "$path" ]; then
    echo "Error: Path does not exist."
    exit 1
fi

if [ -f "$path" ]; then
    echo "File analysis:"
    wc "$path"

elif [ -d "$path" ]; then
    echo "Directory analysis:"
    echo "Total files: $(find "$path" -type f | wc -l)"
    echo ".txt files: $(find "$path" -type f -name \"*.txt\" | wc -l)"
else
    echo "Error: Invalid path type."
fi
```

"analyze.sh" 46L, 477C

I created a shell script that accepts exactly one command-line argument and checks whether it is a file or a directory. For a file, the script displays the number of lines, words, and characters using `wc`. For a directory, it counts total files and `.txt` files using `ls` and `grep`, and prints appropriate error messages for invalid inputs.