

PROGRAM TITLE:Delete a given file if it is empty.**THEORY:**

We use the command wordcount('wc') for finding the number of characters in a file. By default, it shows the number of lines, number of words and the number of characters followed by the file name. We can isolate the no of words by using '-w' along with the 'wc' command. To remove the filename from the output, we feed the file as input to 'cat' command and then pipe its output to the 'wc -w' command so that we only get the desired O/P.

PROGRAM CODE:

```
#Shell Program to delete an empty file
read -p "Enter the filename(with extension):" filename
if [ ! -e "$filename" ]
then
    echo "File Doesn't Exist."
else
    charcount=`cat $filename |wc -c`
    if [ $charcount -eq 0 ]
    then
        rm -f $filename
        echo "File has being removed."
    else
        echo "File is not empty."
    fi
fi
```

OUTPUT:**Set 1:**

```
Enter the filename(with extension)::my.txt
File Doesn't Exist.
```

Set 2:

```
Enter the filename(with extension)::empty.txt
File has being removed.
```

Set 3:

```
Enter the filename(with extension)::text.txt
File is not empty .
```

DISCUSSION:

1. We check at first if the file exists or not.
2. The 'rm -f' command is used to forcibly remove any empty file.
3. We use the number of words to determine the file is to be removed or not so that the program also deletes files containing only newlines.