| S.No: 16 | Exp. Name: ***File Eligibility for Submission*** | Date:2025-10-02 |
|---|---|---|





## Aim:

Rathika is preparing to submit her project abstract to the university. The university has imposed a rule stating that the abstract file must not exceed 250 characters, including spaces. Rathika has finalized her abstract but is uncertain whether it meets the university's criteria.

Your task is to create a Java program that helps Rathika determine whether her abstract file is eligible for submission. The program should read the content of the abstract from a text file, count the total number of visible characters and spaces only (ignore newline characters), and then provide feedback to Rathika about the eligibility of her abstract. At the end, print the total character count.

Ensure that your program handles situations where the file does not exist or if there are any issues with file reading.

**Input Format:**

- The input is the file name.

**Output Format:**

- The output displays whether the abstract is eligible or not and prints the total character count. If the file doesn't exist it prints the error message as "File does not exist".

## Source Code:

q28244/AbstractChecker.java

```
package q28244;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;
import java.util.Scanner;

public class AbstractChecker {

   // write the code..
   public static void main(String[] args){
      Scanner sc = new Scanner(System.in);
      String fileName = sc.nextLine();
      File file = new File(fileName);
      try{
         Scanner fileScanner = new Scanner(file);
         StringBuilder content = new StringBuilder();

         while(fileScanner.hasNextLine()){
            content.append(fileScanner.nextLine());
         }
         fileScanner.close();

         int charCount = content.length();

         if(charCount <= 250){
```

```
            System.out.println("Eligible");
         }else{
            System.out.println("Not eligible");
         }
         System.out.println("Character count: " + charCount);
      }catch(FileNotFoundException e){
         System.out.println("File does not exist");
      }
   }

}
```

file1.txt

```
This paper explores a relatively less popular source of clean energy.
 An application is proposed for the same, in which a speaker and a transformer
are used to convert noise produced by car horn into electrical energy
```

file2.txt

```
Inverters are widely used in the domestic as well as industrial environments to serve
as second line of source in case of power cut form the electricity utility grids.
Inverter is the device that powers the electric appliances in the event of the power
failure. Inverter as the name implies first converts AC to DC for
charging the battery and then inverts DC to AC for powering the electric gadgets.
```

file3.txt

```
This paper explores a relatively less popular source of clean energy.
 An application is proposed for the same, in which a speaker and a transformer
are used to convert noise produced by car horn into electrical energyThis paper explo
res a relatively less popular source of clean energy.
 An application is proposed for the same, in which a speaker and a transformer
are used to convert noise produced by car horn into electrical energy
```

file4.txt

```
Insert text here   1 2 3 3 3 3 3 3 3 3 3
```

## Execution Results - All test cases have succeeded!

| Test Case - 1 |
|---|
| User Output |
| file1.txt |
| Eligible |
| Character count: 218 |

| Test Case - 2 |
| --- |
| User Output |
| file2.txt |
| Not eligible |
| Character count: 399 |

| Test Case - 3 |
| --- |
| User Output |
| files.txt |
| File does not exist |