import java.io.File;

import java.io.IOException;

import java.io.FileNotFoundException;

import java.util.Scanner;

import java.util.regex.Pattern;

public class WordCounter {

public static void main(String[] args) {

try{

String filename = args[0];

File file = new File(filename);

Scanner myReader = new Scanner(file);

while (myReader.hasNextLine()) {

String data = myReader.nextLine();

String str = data;

String P = args[1];

String R = args[2];

str = str.replaceAll(Pattern.quote(P), R);

System.out.println(str);

}

}

catch (FileNotFoundException e) {

System.out.println("An error occurred.");

e.printStackTrace();

}

}

}

**Running the program**

Steps

1)We need to create a text file with a name of our preference. For convenience we will use one.txt.

2)We need to write a string inside the file for example “Big black cat”

3)Now we need to write the command in the terminal. If we want to replace the word “black” inside the text file with the word “brown” our command will look like java one.java one.txt black brown.



The output will be “big brown cat”

**Methodology**

String filename = args[0];

File file = new File(filename);

Scanner myReader = new Scanner(file);

while (myReader.hasNextLine()) {

String data = myReader.nextLine();

String str = data;

String P = args[1];

String R = args[2];

str = str.replaceAll(Pattern.quote(P), R);

System.out.println(str);

}

Here we are taking in three arguments args[0] is the file containing our text, args[1] is the string we will replace and args[2] is the string we will replace args[1] with. They are assigned under the variables file, P and R respectively. The sentences in the text file is assigned under the variable data. Data is placed in str.

A while loop is run until the text file reaches the last line.

str = str.replaceAll(Pattern.quote(P), R);

In each iteration the sentence is checked for the pattern of P. using the pattern.quote() function. Then replaceAll() function is used to replace P with R.

The entire statement is inside a try catch condition to avoid the exception of file not being found.