//Write a Java program that reads an input file from the file system and outputs the content of the file character by character. Use FileReader.read() method to read characters from the file. At the end, print the total number of characters present in the file.

import java.io.FileReader;

import java.io.IOException;

public class ReadFilebyCharacter

{

public static void main(String[] args)

{

try {

FileReader fileReader = new FileReader("C:\\Users\\yoges\\OneDrive\\Desktop\\Lab\\filereadbycharacter.txt");

int character;

int count = 0;

while ((character = fileReader.read()) != -1)

{

System.out.print((char) character);

count++;

//count the total words in file

}

fileReader.close(); // closing file

//printing files chracter

System.out.println("\nTotal number of characters: " + count);

}

catch (IOException e)

{

//print file not found error

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

e.printStackTrace();

}

}

}

**Output**

hello my name is yogesh

Total number of characters: 23

// Write a Java program that reads two numbers from the console. Add two numbers and print the output on the console. Use java.io.Console Class to read lines from the console. Convert the Strings to numbers before carrying out the mathematical operations. (Run the program in command prompt only.)

import java.io.Console;

public class AddNumbers

{

public static void main(String[] args)

{

// console object

Console console = System.console();

if (console == null)

{

//checking console available

System.err.println("No console.");

System.exit(1);

}

//getting string values

String num1 = console.readLine("Enter first number: ");

String num2 = console.readLine("Enter second number: ");

//converting string

int number1 = Integer.parseInt(num1);

int number2 = Integer.parseInt(num2);

//addition

int sum = number1 + number2;

console.printf("The sum of %d and %d is: %d%n", number1, number2, sum);

}

}

**Output**

Enter first number: 20

Enter second number:10

The sum of 20 and 10 is:30