Mod 4 Assignment

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Author Note

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Mod 4 Assignment

import java.util.\*;

import java.lang.\*;

import java.io.\*;

public class main{

public static void main(String[] args){

//Instantiating variables to pass to the objects of the classes being called

String filePath = "dataset.csv";

String fileName = "Totals.txt";

int number = 0;

//Creating the objects of the two classes being used

readFile readObject = new readFile();

createFile createObject = new createFile();

//Sending the file being read to the correct object

readObject.readRecord(filePath);

//Setting the total number variable by calling the method from the readFile class

number = readObject.getYearTotal();

//Sending the filename of the text document and total number to the createFile class

createObject.writeFile(fileName, number);

}

}

import java.util.Scanner;

import java.io.\*;

import java.util.Arrays;

import java.util.ArrayList;

import java.lang.\*;

public class readFile{

//Creating the ArrayList to store each line of the CSV file

ArrayList<String> records = new ArrayList<String>();

//Scanning each line of the CSV file to the ArrayList

public void readRecord(String filePath) {

try {

Scanner in = new Scanner(new File(filePath));

in.useDelimiter("\n");

String record = "";

while (in.hasNext()){

record = in.next();

records.add(record + "\n");

}

} catch (Exception e){

System.out.println("Error");

}

}

//Taking each element of the ArrayList and parsing it out by comma to an array

//in order to extract the total number at the end of each line

public int getYearTotal(){

int total = 0;

String[] totalsArray = new String[(records.size())];

int counter = 0;

for (int i = 1; i < records.size(); i++){

String temp = records.get(i);

String[] tempArray = temp.trim().split(",");

for (int j = 3; j < tempArray.length; j = j + 4){

totalsArray[counter] = tempArray[j];

counter++;

}

}

for (int i = 0; i < totalsArray.length - 1; i++){

total = total + Integer.parseInt(totalsArray[i]);

}

return total;

}

}

import java.util.\*;

import java.io.\*;

import java.lang.\*;

public class createFile{

//Taking the filename to be written to and the number to be written

public void writeFile(String fileName, int num){

try{

Writer fw = new FileWriter(fileName);

fw.write(""+num);

fw.close();

} catch (Exception e){

System.out.println(e.getMessage());

}

}

}