Player Details:

package com.cg.playerdetails;

import java.io.File;

import java.io.FileOutputStream;

import java.io.IOException;

import java.util.Scanner;

public class PlayerDetails {

public static void main(String[] args) throws IOException {

// TODO Auto-generated method stub

String name = "";

String team = "";

Scanner sc = new Scanner(System.in);

File file = new File("Player.csv");

FileOutputStream fos = new FileOutputStream(file);

System.out.println("Enter the name of the player");

name += sc.nextLine();

System.out.println("Enter team name");

team += sc.nextLine();

System.out.println("Enter number of matches played");

int matches = sc.nextInt();

String str = name+","+team+","+matches;

byte[] b = str.getBytes();

fos.write(b);

sc.close();

fos.close();

}

}

Sorting Players:

Player.java:

**package** com.cg.sortingplayers;

**public** **class** Player **implements** Comparable<Player>{

**private** **int** capNumber;

**private** String playerName;

**private** String skill;

**private** String country;

**private** **int** matchesPlayed;

**public** Player() {

**super**();

}

**public** Player(**int** capNumber, String playerName, String skill, String country, **int** matchesPlayed) {

**super**();

**this**.capNumber = capNumber;

**this**.playerName = playerName;

**this**.skill = skill;

**this**.country = country;

**this**.matchesPlayed = matchesPlayed;

}

**public** **int** getCapNumber() {

**return** capNumber;

}

**public** **void** setCapNumber(**int** capNumber) {

**this**.capNumber = capNumber;

}

**public** String getPlayerName() {

**return** playerName;

}

**public** **void** setPlayerName(String playerName) {

**this**.playerName = playerName;

}

**public** String getSkill() {

**return** skill;

}

**public** **void** setSkill(String skill) {

**this**.skill = skill;

}

**public** String getCountry() {

**return** country;

}

**public** **void** setCountry(String country) {

**this**.country = country;

}

**public** **int** getMatchesPlayed() {

**return** matchesPlayed;

}

**public** **void** setMatchesPlayed(**int** matchesPlayed) {

**this**.matchesPlayed = matchesPlayed;

}

@Override

**public** String toString() {

**return** capNumber+","+playerName+","+skill+","+country+","+matchesPlayed;

}

**public** **int** compareTo(Player player) {

**if**(**this**.capNumber == player.capNumber)

**return** 0;

**else** **if**(**this**.capNumber > player.capNumber)

**return** 1;

**else**

**return** -1;

}

}

FileUtility.java:

package com.cg.sortingplayers;

import java.io.BufferedReader;

import java.io.FileOutputStream;

import java.io.IOException;

import java.util.ArrayList;

import java.util.Collections;

import java.util.List;

public class FileUtility {

public List<Player>readFileData(BufferedReader br) {

List<Player> playerList = new ArrayList<>();

String[] line;

Integer capNumber;

String playerName;

String skill;

String country;

Integer matchesPlayed;

try {

while(br.ready()) {

line = br.readLine().split(",");

capNumber = Integer.parseInt(line[0]);

playerName = line[1];

skill = line[2];

country = line[3];

matchesPlayed = Integer.parseInt(line[4]);

playerList.add(new Player(capNumber, playerName, skill, country, matchesPlayed));

}

}

catch(Exception e) {

System.out.println(e);

}

return playerList;

}

public void writeDataToFile(List<Player> playerList) {

try(FileOutputStream output = new FileOutputStream("output.csv")){

Collections.sort(playerList);

for(Player player:playerList) {

output.write(player.toString().getBytes());

output.write("\n".getBytes());

}

}

catch(IOException e) {

System.out.println(e);

}

}

}

MainClass.java:

package com.cg.sortingplayers;

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

import java.util.List;

public class MainClass {

public static void main(String[] args) {

// TODO Auto-generated method stub

FileUtility file = new FileUtility();

try(FileReader fr = new FileReader("input.txt"); BufferedReader br = new BufferedReader(fr)){

List<Player> playerlist = file.readFileData(br);

file.writeDataToFile(playerlist);

}

catch(IOException e) {

System.out.println(e);

}

}

}

Pattern.java:

package com.cg.pattern;

import java.io.\*;

import java.util.\*;

public class Pattern {

public void printCount(String[] s) throws FileNotFoundException, IOException {

try(FileReader fr = new FileReader("team.txt");

BufferedReader br = new BufferedReader(fr)){

String line = br.readLine();

System.out.println("\nGiven word is" +line);

for(String words:s) {

int count = countFrequency(words,line);

System.out.println("\nWord:"+words+" Count:"+count);

}

}catch(IOException e) {

System.out.println(e);

}

}

public static int countFrequency(String word, String line) {

int count=0, lastIndex=0;

while(lastIndex != -1) {

lastIndex = line.indexOf(word, lastIndex);

if(lastIndex != -1) {

count++;

lastIndex = lastIndex + word.length();

}

}

return count;

}

public static void main(String[] args) throws FileNotFoundException, IOException {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of words:");

int n = sc.nextInt();

System.out.println("Enter the string to be searched:");

String[] words = new String[n];

for(int i=0; i<n; i++) {

words[i] = sc.next();

}

Pattern iPattern = new Pattern();

iPattern.printCount(words);

}

}