**CODE**

**package** com.Prg.Gudie;

**public** **class** Item {

String name;

**int** price;

**public** Item(String name, **int** price) {

**this**.name = name;

**this**.price = price;

}

**public** String toString() {

**return** **this**.name + ": " + **this**.price;

}

}

package com.Prg.Gudie;

import java.io.\*;

import java.util.ArrayList;

import java.util.Collections;

import java.util.Comparator;

import java.util.Scanner;

public class GoodieDilemma{

//private static String inputFilePath = "C:\\Users\\varsha\\eclipse-workspace\\Ques\\src\\com\\Prg\\Gudie\\input.txt";

private static String inputFilePath = "C:\\Users\\varsha\\eclipse-workspace\\Ques\\src\\com\\Prg\\Gudie\\input1.text";

//private static String inputFilePath = "C:\\Users\\varsha\\eclipse-workspace\\Ques\\src\\com\\Prg\\Gudie\\input2.txt";

private static String outputFilePath = "C:\\Users\\varsha\\eclipse-workspace\\Ques\\src\\com\\Prg\\Gudie\\output.txt";

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

FileInputStream inputFile=new FileInputStream(inputFilePath);

Scanner sc=new Scanner(inputFile);

int numberOfEmployees = Integer.parseInt(sc.nextLine().split(": ")[1]);

sc.nextLine(); sc.nextLine(); sc.nextLine();

ArrayList<Item> goodiesItems = new ArrayList<Item>();

while(sc.hasNextLine())

{

String current[] = sc.nextLine().split(": ");

goodiesItems.add(new Item(current[0], Integer.parseInt(current[1])));

}

sc.close();

Collections.sort(goodiesItems, new Comparator<Item>(){

public int compare(Item a, Item b) {

return a.price - b.price;

}

});

int mindiff = goodiesItems.get(goodiesItems.size()-1).price;

int minindex = 0;

for(int i=0;i<goodiesItems.size()-numberOfEmployees+1;i++) {

int diff = goodiesItems.get(numberOfEmployees+i-1).price-goodiesItems.get(i).price;

if(diff<=mindiff) {

mindiff = diff;

minindex = i;

}

}

FileWriter fw = new FileWriter(outputFilePath);

fw.write("The goodies selected for distribution are:\n\n");

for(int i=minindex;i<minindex + numberOfEmployees; i++) {

fw.write(goodiesItems.get(i).toString() + "\n");

}

fw.write("\nAnd the difference between the chosen goodie with highest price and the lowest price is " + mindiff);

fw.close();

}

}

**INPUT FILES1**

Number of employees: 6

Goodies and Prices:

Fitbit Plus: 7980

IPods: 22349

MI Band: 999

Cult Pass: 2799

Macbook Pro: 229900

Digital Camera: 11101

Alexa: 9999

Sandwich Toaster: 2195

Microwave Oven: 9800

Scale: 4999

**INPUT FILES2**

Number of employees: 2

Goodies and Prices:

Fitbit Plus: 7980

IPods: 22349

MI Band: 999

Cult Pass: 2799

Macbook Pro: 229900

Digital Camera: 11101

Alexa: 9999

Sandwich Toaster: 2195

Microwave Oven: 9800

Scale: 4999

**INPUT FILES3**

Number of employees: 4

Goodies and Prices:

Fitbit Plus: 7980

IPods: 22349

MI Band: 999

Cult Pass: 2799

Macbook Pro: 229900

Digital Camera: 11101

Alexa: 9999

Sandwich Toaster: 2195

Microwave Oven: 9800

Scale: 4999

**OUTPUT FILES**

The goodies selected for distribution are:

Microwave Oven: 9800

Alexa: 9999

And the difference between the chosen goodie with highest price and the lowest price is 199