1. Create Java Project : Assginment3
2. package name : SalesData
3. Class name FileOI, Franchise, Store, Driver

// FileOI.java

package SalesData;

import java.io.\*;

import java.util.StringTokenizer;

public class FileIO {

// Franchise readData(String filename)

Franchise readData(String filename, int numstores) {

Franchise f1 = new Franchise(numstores);

boolean DEBUG = true;

int ctr = 0;

// open the file

// read the line

// parse the line - get one value

// and set it in the correct location in 2 d array

try {

FileReader file = new FileReader(filename);

BufferedReader buff = new BufferedReader(file);

boolean eof = false;

while (!eof) {

String line = buff.readLine();

ctr++;

if (line == null)

eof = true;

else {

if (DEBUG)

System.out.println(line);

if (ctr > 1) {

StringTokenizer a = new StringTokenizer(line);

for (int week = 0; week < 5; week++) {

for (int day = 0; day < 7; day++) {

String l = a.nextToken();

float f = Float.parseFloat(l);

f1.getStores(ctr - 2)

.setsaleforweekdayintersection(week,

day, f);

if (DEBUG)

System.out.print("f" + f + " ");

}

}

}

}

}

} catch (IOException f2) {

}

return f1;

}

}

//Franchise.java

package SalesData;

public class Franchise {

private Store stores[];

public Franchise(int num) {

stores = new Store[num];

for(int i=0;i<num;i++)

stores[i] = new Store();

}

public Store getStores(int i) {

return stores[i];

}

public void setStores(Store stores, int i) {

this.stores[i] = stores;

}

}

// Store.java

package SalesData;

public class Store {

private float salesbyweek[][];

Store() {

salesbyweek = new float[5][7];

}

//getter and setters

//setsaleforweekdayintersection(int week, int day, float sale)

public void setsaleforweekdayintersection(int week, int day, float sale){

salesbyweek[week][day]=sale;

}

float [] getsalesforentireweek(int week)

{

return salesbyweek[week];

}

//float getsaleforweekdayintersection(int week, int day)

float getSaleForWeekDayIntersection(int week, int day)

{

return salesbyweek[week][day];

}

//businessmethod

//a. totalsalesforweek

float gettotalsalesforweek(int week)

{

float total = 0;

for (int d = 0; d < 7; d++)

{

total += salesbyweek[week][d];

}

return total;

}

//b. avgsalesforweek

float getavgsalesforweek(int week)

{

return gettotalsalesforweek(week) / 7;

}

//c. totalsalesforallweeks

float gettotalsalesforallweeks()

{

float total = 0;

for (int w = 0; w < 5; w++)

{

total += gettotalsalesforweek(w);

}

return total;

}

//d. averageweeklysales

float getaverageweeklysales()

{

return gettotalsalesforallweeks() / 5;

}

//e. weekwithhighestsaleamt

int getweekwithhighestsaleamt()

{

int maxWeek = 0;

float maxSale = -1;

for (int w = 0; w < 5; w++)

{

float sale = gettotalsalesforweek(w);

if (sale > maxSale)

{

maxSale = sale;

maxWeek = w;

}

}

return maxWeek;

}

//f. weekwithlowestsaleamt

int getweekwithlowestsaleamt()

{

int minWeek = 0;

float minSale = Float.MAX\_VALUE;

for (int w = 0; w < 5; w++)

{

float sale = gettotalsalesforweek(w);

if (sale < minSale)

{

minSale = sale;

minWeek = w;

}

}

return minWeek;

}

//analyzeresults //call a through f

public void analyzeresults()

{

for (int w = 0; w < 5; w++)

{

System.out.printf("---- Week %d ----\n", w);

System.out.printf(" Total sales: %.2f\n", gettotalsalesforweek(w));

System.out.printf(" Average sales: %.2f\n", getavgsalesforweek(w));

}

System.out.printf("\n");

System.out.printf("Total sales for all weeks: %.2f\n", gettotalsalesforallweeks());

System.out.printf("Average weekly sales: %.2f\n", getaverageweeklysales());

System.out.printf("Week with highest sale: %d\n", getweekwithhighestsaleamt());

System.out.printf("Week with lowest sale: %d\n", getweekwithlowestsaleamt());

}

}

//print()

// driver.java

package SalesData;

public class Driver {

public static void main(String[] args) {

// TODO Auto-generated method stub

FileIO readdata = new FileIO();

Franchise f1 = readdata.readData("D:\\CIS 35A\\Assignment3\\Salesdat.txt", 6);

for (int i = 0; i < 6; i++)

{

Store s = f1.getStores(i);

System.out.printf("==== Store %d ====\n", i);

s.analyzeresults();

}

System.out.println("Data read");

}

}