package gpa;

import java.util.Scanner;

public class Gpa {

//Attributes

int maleCount = 0;

int femaleCount= 0;

double maleTotal = 0;

double femaleTotal = 0;

double maleGPA = 0;

double femaleGPA = 0;

public void readFile() throws Exception{

String[] parts = new String[2];

System.out.println("in read file");

File infile = new File("data.txt");

Scanner input = new Scanner(infile);

//try{

Scanner input = new Scanner(infile);

String line = input.nextLine(); // reading the lines from file

System.out.println(line); // echo

parts = line.split(" "); //reads the line in two parts

while(!parts[0].equals("X")){ // while array index is not an X

System.out.println(line); // echo

if(parts[0].equals("M")){

maleCount++;

maleTotal += Double.parseDouble(parts[1]); // coverts and adds

}//if

else{ //female

if (parts[0].equals("F")) {

femaleCount++;

femaleTotal += Double.parseDouble(parts[1]); // coverts to double and adds

}//else if

}//else

line = input.nextLine(); // get new line

parts = line.split(" "); // split change of the condition

}//while

input.close(); // close the file

////// Averages

maleGPA = maleTotal / maleCount;

femaleGPA = femaleTotal / femaleCount;

}// try

catch (FileNotFoundException ex){

}// catch

}//readFile

public void display(){

System.out.println("==========================================");

System.out.println("Count of Males: " + maleCount);

System.out.printf("GPA of Males: 6.3\n\n" , maleGPA);

System.out.println(" ");

System.out.println(" ");

System.out.println("Count of Females: " + femaleCount);

System.out.printf("GPA of Females: 6.3\n\n", femaleGPA);

System.out.println("============================================");

}//display

public static void main(String[] args) {

//Making Gpa

Gpa list = new Gpa();

list.readFile();

list.display();

}//Main

}//Class

**data.txt:**

M 1.75

F 4.00

M 3.54

F 2.68

M 3.75

F 0.00

X 0