public class FourFilesObjects

{

String name;

int age;

double income;

}

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\* Period A

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\* \*\*\*\*\*Program Description\*\*\*\*\*

\* This program takes 10 names, ages, and incomes from the user and sorts them by name, and searches for a user inputed name.

\* \*\*\*\*\*Variable DIctionary\*\*\*\*\*

\* FourFilesSort a - reference to the sorter

\* FourFilesSearch b - reference to the searcher

\* int count/count2 - counters for loops

\* boolean found - if name has been found

\* FourFilesObjects list [] - main array for accesssing object class

\* int pointer [] - pointer array for main array

\* String out [] - output

\*/

import javax.swing.JOptionPane;

public class FourFilesDriver

{

public static void main (String args [])

{

FourFilesObjects list [] = new FourFilesObjects [11];

int pointer [] = new int [11];

boolean found = false;

input (list);

String value = JOptionPane.showInputDialog (null, "What name do you want to search for?");

for (int pointervalue=1; pointervalue <= 10; pointervalue++)

pointer [pointervalue] = pointervalue;

FourFilesSort a = new FourFilesSort ();

a.sortIt (pointer);

FourFilesSearch b = new FourFilesSearch ();

b.searchIt (list, value, found);

output (list, pointer, found);

}

public static void input (FourFilesObjects list [])

{

int count = 1;

while (count <= 10) //loop for all inputs

{

FourFilesObjects pointer = new FourFilesObjects ();

list[count] = pointer; //clears pointer

list[count].name = JOptionPane.showInputDialog (null, "What is the name of person " + count + "?"); //input of name

String agestring = JOptionPane.showInputDialog (null, "What is the age of person " + count + "?"); //input of age

list[count].age = Integer.parseInt(agestring); //age to an int

String incomestring = JOptionPane.showInputDialog (null, "What is the income of person " + count + "?"); //input of income

list[count].income = Double.parseDouble(incomestring); //income to a double

count = count + 1; //counter goes up 1

}

}

public static void output (FourFilesObjects list [], int pointer [], boolean found)

{

String out [] = new String [11];

int count = 1;

int count2 = 1;

if (found = true)

JOptionPane.showMessageDialog (null, "Name Found!");

else

JOptionPane.showMessageDialog (null, "Name Not Found");

while (count<= 10)

{

out[count] = ("Name: " + list[pointer[count]].name + " | Age: " + list[pointer[count]].age + " | Income: " + list[pointer[count]].income + "\n"); //concatanates values into an new array to be printed

count = count + 1; //counter goes up 1

}

JOptionPane.showMessageDialog (null, out[1] + "\n" + out[2] + "\n" + out[3] + "\n" + out[4] + "\n" + out[5] + "\n" + out[6] + "\n" + out[7] + "\n" + out[8] + "\n" + out[9] + "\n" + out[10]);

}

}

public class FourFilesSort

{

public static void sortIt(int pointer [])

{

int count = 1;

for (int s = 1; s <= 10; s++) //starts sort loop

{

for (int d = s + 1; d <= 10; d++)

{

if(pointer[s] == (pointer[d]))

{

pointer [0] = pointer [d];

pointer [d] = pointer [s];

pointer [s] = pointer [0];

}

}

}

}

}

public class FourFilesSearch

{

public static void searchIt(FourFilesObjects list [], String value, boolean found)

{

int count = 1;

while (found = false)

{

if (value .equals (list [count].name))

found = true;

else

count = count + 1;

}

}

}