Class: CV Name: Loyd Flores Project: Project 0A Project name: Java project submission exercise Language: Java Due Date: 9/6/2024 Friday before midnight Submit date: 09/03/2024 \_\_\_\_\_ Top level algorithm steps' \_\_\_\_\_ Step 0: inFile 

copen from args [0] outFile ← open from args [1] Step 1: numOfRows ← read from inFile. Step 2: Persons people[] ← new Person[numOfRows]; // create an array of Persons; Step 3: index ∈ 0 // set initial counter to 0 Step 4: line ← read one row of data from inFile. Step 5: name, age ← parse the name and age from the line Step 6: p ← new Person(name, age) // create the Person object Step 7: people[index++] = p; // save the person Step 8: repeat steps 4 to 7 while index < numOfRows Step 9: For each person, print the person. Step 10: close inFile, outFile. \_\_\_\_\_ Illustration: None \_\_\_\_\_

```
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;
class Person {
   private String name;
   private int age;
   Person(String name, int age){
       this.age = age;
   void printPerson(BufferedWriter writer) throws IOException {
        String describe = name + " is " + age + " years old. ";
       writer.write(describe + "\n");
   public static void main(String[] args) throws IOException {
       BufferedReader reader = new BufferedReader(new
FileReader(args[0])); // input file
       BufferedWriter writer = new BufferedWriter(new
FileWriter(args[1])); // output file
       String line = reader.readLine();
        int numOfPeople = Integer.parseInt(line);
        Person people[] = new Person[4];
       writer.write("There are " + numOfPeople + " people \n" );
```

```
while (index < numOfPeople) {
    line = reader.readLine();
    String data[] = line.split(" ");

Split name and age into an array
    String name = data[0];
    int age = Integer.parseInt(data[1]);
    Person p = new Person(name, age);
    people[index++] = p;
}

for(Person person : people) {
    person.printPerson(writer);
}

reader.close();
writer.close();
}</pre>
```

**************************************
4
Emily 24
Ben 29
Mark 22
Lisa 17
**************************************
There are 4 people
Emily is 24 years old.
Ben is 29 years old.
Mark is 22 years old.
Lisa is 17 years old.