File Handling Source Code

**package** com.vinay;

**import** java.io.BufferedReader; **import** java.io.BufferedWriter; **import** java.io.File;

**import** java.io.FileReader; **import** java.io.FileWriter; **import** java.io.IOException; **import** java.util.Scanner;

**import** java.util.StringTokenizer;

**public class** FileHandling {

**public static void** main(String[] args) { @SuppressWarnings("resource")

Scanner strInput = **new** Scanner(System.***in***); String choice,cont = "YES";

**while**( cont.equalsIgnoreCase("YES") ) { System.***out***.println("\t\t Employee Information System\n\n");

System.***out***.println("1 Add New Employee Record : "); System.***out***.println("2 View All Employee Record :"); System.***out***.println("3 Delete Employee Record :"); System.***out***.println("4 Search Specific Record :"); System.***out***.println("5 Update Specific Record :");

System.***out***.print("\n\n"); System.***out***.println("SELECT FROM ABOVE OPTIONS: "); choice = strInput.nextLine();

**if**( choice.equals("1") ) {

# try {

*AddRecord*();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block e.printStackTrace();

}

} **else if**( choice.equals("2") ) {

# try {

*ViewAllRecord*();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block e.printStackTrace();

}

} **else if**( choice.equals("3") ) {

# try {

*DeleteRecordByID*();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block e.printStackTrace();

}

} **else if**( choice.equals("4")) {

# try {

*SearchRecordbyID*();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block e.printStackTrace();

}

} **else if**( choice.equals("5") ) {

# try {

*updateRecordbyID*();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block e.printStackTrace();

}

}

System.***out***.println("DO YOU WANT TO CONTINUE :YES/NO"); cont = strInput.nextLine();

}

}

**public static void** AddRecord() **throws** IOException {

BufferedWriter bufferwriter = **new** BufferedWriter( **new** FileWriter("records.txt",**true**) ); @SuppressWarnings("resource")

Scanner strInput = **new** Scanner(System.***in***); String ID, name, age, addr;

System.***out***.print("Enter the Employee ID: "); ID = strInput.nextLine(); System.***out***.print("Enter the Employee Name: "); name = strInput.nextLine(); System.***out***.print("Enter the Employee Age: "); age = strInput.nextLine();

System.***out***.print("Enter the Employee Address: "); addr = strInput.nextLine();

bufferwriter.write(ID +","+ name+ ","+ age+ ","+ addr); bufferwriter.flush();

bufferwriter.newLine(); bufferwriter.close();

}

**public static void** ViewAllRecord() **throws** IOException { BufferedReader br = **new** BufferedReader( **new**

FileReader("records.txt") );

String record;

System.***out***.println("

");

System.***out***.println("| ID Name Age Address |"); System.***out***.println("

");

**while**( ( record = br.readLine() ) != **null** ) { StringTokenizer st = **new** StringTokenizer(record,",");

System.***out***.println("| "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" |");

}

System.***out***.println("| |");

System.***out***.println("

");

br.close();

}

**public static void** DeleteRecordByID() **throws** IOException { @SuppressWarnings("resource")

Scanner strInput = **new** Scanner(System.***in***); String ID, record;

File tempDB = **new** File("records\_temp.txt"); File db = **new** File("records.txt");

BufferedReader br = **new** BufferedReader( **new** FileReader( db ) ); BufferedWriter bw = **new** BufferedWriter( **new** FileWriter( tempDB )

);

System.***out***.println("\t\t Delete Employee Record\n"); System.***out***.println("Enter your Employee ID: ");

ID = strInput.nextLine();

**while**( ( record = br.readLine() ) != **null** ) {

**if**( record.contains(ID) )

# continue;

bw.write(record); bw.flush();

bw.newLine();

}

br.close();

bw.close();

db.delete(); tempDB.renameTo(db);

}

**public static void** SearchRecordbyID() **throws** IOException { String ID,record;

@SuppressWarnings("resource")

Scanner strInput = **new** Scanner(System.***in***);

BufferedReader br = **new** BufferedReader( **new**

FileReader("records.txt") );

System.***out***.println("\t\t Search Employee Record\n");

System.***out***.println("Enter the Employee ID: "); ID = strInput.nextLine();

System.***out***.println("

");

System.***out***.println("| ID Name Age Address |"); System.***out***.println("

");

**while**( ( record = br.readLine() ) != **null** ) { StringTokenizer st = **new** StringTokenizer(record,",");

**if**( record.contains(ID) ) {

System.***out***.println("| "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"|");

}

}

--- ");

System.***out***.println("| |");

System.***out***.println("

br.close();

}

**public static void** updateRecordbyID() **throws** IOException { String newName, newAge, newAddr, record, ID,record2;

File db = **new** File("records.txt");

File tempDB = **new** File("records\_temp.txt");

BufferedReader br = **new** BufferedReader( **new** FileReader(db) ); BufferedWriter bw = **new** BufferedWriter( **new** FileWriter(tempDB)

);

@SuppressWarnings("resource")

Scanner strInput = **new** Scanner(System.***in***);

System.***out***.println("\t\t Update Employee Record\n\n");

/\*\*/

System.***out***.println("Enter the Employee ID: "); ID = strInput.nextLine();

System.***out***.println("

");

System.***out***.println("| ID Name Age Address |"); System.***out***.println("

");

**while**( ( record = br.readLine() ) != **null** ) { StringTokenizer st = **new** StringTokenizer(record,",");

**if**( record.contains(ID) ) {

System.***out***.println("| "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"|");

}

}

System.***out***.println("| |");

System.***out***.println("

5"

+ "");

br.close();

/\*\*/

System.***out***.println("Enter the new Name: "); newName = strInput.nextLine();

System.***out***.println("Enter the new Age: "); newAge = strInput.nextLine(); System.***out***.println("Enter the new Address: "); newAddr = strInput.nextLine();

BufferedReader br2 = **new** BufferedReader( **new** FileReader(db) );

**while**( (record2 = br2.readLine() ) != **null** ) {

**if**(record2.contains(ID)) {

bw.write(ID+ ","+newName+ ","+ newAge+ ","+ newAddr);

} **else** {

bw.write(record2);

}

bw.flush();

bw.newLine();

}

bw.close();

br2.close();

db.delete();

**boolean** success = tempDB.renameTo(db); System.***out***.println(success);

}

}