FILE HANDLING

**package** com;

**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);

}

}