File Handling

Source Code

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File Handling Code:

package FileH;

import java.io.\*;

import java.util.\*;

public class FileHandling {

public static void main(String[] args) {

@SuppressWarnings("resource")

Scanner s = new Scanner(System.in);

String option,cont;

do {

System.out.println("Employee Information System\n\n");

System.out.println("\t 1 Add New Employee Record : ");

System.out.println("\t 2 View All Employee Record : ");

System.out.println("\t 3 Delete Employee Record : ");

System.out.println("\t 4 Search Specific Record : ");

System.out.println("\t 5 Update Specific Record : \n\n");

System.out.println("SELECT FROM ABOVE option: ");

option = s.nextLine();

switch(option) {

case "1":

try {

Add\_Record();

}

catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

break;

case "2":

try {

ViewAll\_Record();

}

catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

break;

case "3":

try {

DeleteRecord\_ByID();

}

catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

break;

case "4":

try {

SearchRecord\_ByID();

}

catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

break;

case "5":

try {

UpdateRecord\_byID();

}

catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

break;

}

default:

System.out.println("Entered Wrong Input!");

break;

}

System.out.println("\n");

System.out.println("DO YOU WANT TO CONTINUE :YES/NO");

cont = s.nextLine();

}while( cont.equalsIgnoreCase("YES") );

}

public static void Add\_Record() throws IOException {

BufferedWriter bfw = new BufferedWriter( new FileWriter("records.txt",true) );

@SuppressWarnings("resource")

Scanner FileInput = new Scanner(System.in);

String ID, name, age, addr;

System.out.print("Enter the Employee ID: ");

ID = FileInput.nextLine();

System.out.print("Enter the Employee Name: ");

name = FileInput.nextLine();

System.out.print("Enter the Employee Age: ");

age = FileInput.nextLine();

System.out.print("Enter the Employee Address: ");

addr = FileInput.nextLine();

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

bfw.flush();

bfw.newLine();

bfw.close();

}

public static void ViewAll\_Record() throws IOException {

BufferedReader bfr = new BufferedReader( new FileReader("records.txt") );

String record;

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

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

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

while( ( record = bfr.readLine() ) != null ) {

StringTokenizer st = new StringTokenizer(record,",");

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

}

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

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

bfr.close();

}

public static void DeleteRecord\_ByID() throws IOException {

@SuppressWarnings("resource")

Scanner FileInput = 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 = FileInput.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 SearchRecord\_ByID() throws IOException {

String ID,record;

@SuppressWarnings("resource")

Scanner FileInput = 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 = FileInput.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 UpdateRecord\_byID() 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 FileInput = new Scanner(System.in);

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

/\*\*/

System.out.println("Enter the Employee ID: ");

ID = FileInput.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();

System.out.println("Enter the new Name: ");

newName = FileInput.nextLine();

System.out.println("Enter the new Age: ");

newAge = FileInput.nextLine();

System.out.println("Enter the new Address: ");

newAddr = FileInput.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);

}

}

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\* Program by Rajagopal Sai Krishna

\* Git Id SaiKrishna6699

\* Git 'https://github.com/SaiKrishna6699/CoreJavaTraining.git'

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