Code

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23201

E-10

/\*Implement a program for maintaining a database of student records using Files.

Student has Student\_id,name, Roll\_no, Class, marks and address. Display the data for few

students.

1. Create Database

2. Display Database

3. Delete Records

4. Update Record

5. Search Record

\*/

import java.util.\*;

import java.io.\*;

class student{

String name,id,rollno,marks, address;

student(){name=id=rollno=marks=address="";}

}

class file\_handling extends student {

void createfile(String name)

{File obj = new File(name);

try { boolean f1;

f1= obj.createNewFile();

if(f1) {

System.out.println("file created");

}

if(f1==false) {

System.out.println("file not created");

}

int n;

FileWriter fw= new FileWriter(name);

Scanner sc =new Scanner(System.in);

System.out.println("Enter the no entires");

n = sc.nextInt();

//student[] arr= new student[n];

for(int i =0;i<n;i++) {

student temp = new student();

System.out.println("enter ID");

id=sc.next();

System.out.println("enter name");

name=sc.next();

System.out.println("enter roll nnumber");

rollno = sc.next();

System.out.println("enter marks");

marks=sc.next();

System.out.println("enter address");

address = sc.next();

fw.write("ID:"+id);

fw.write(" , NAME:"+name);

fw.write(" , Roll number:"+rollno);

fw.write(" , MARKS:"+marks);

fw.write(" , Address:"+address);

fw.write("\n");

}

fw.close();

}catch(Exception e) {System.out.print(e);}

}

void displayfile(String Filename) {

int ch;

try { FileReader fr = new FileReader(Filename);

while ((ch=fr.read())!=-1)

System.out.print((char)ch);

}catch(Exception e) {}

}

void clearfile(String name) {

try{FileWriter fw= new FileWriter(name);

fw.flush();

fw.close();}catch(Exception e) {}

}

void search(String Filename) {

try { Scanner sc1 = new Scanner(System.in);

System.out.println("Enter the roll number/name to be found");

String word = sc1.next();

boolean flag = false;

Scanner sc2 = new Scanner(new FileInputStream(Filename));

while(sc2.hasNextLine()) {

String line = sc2.nextLine();

if(line.indexOf(word)!=-1) {

flag = true;}

if(flag) {

System.out.println(line);

}}

}catch(Exception e ) {}

}

void update(String Filename) {

try {

Scanner sc1 = new Scanner(System.in);

System.out.println("Enter the name/id to be found");

String word = sc1.next();

//boolean flag = false;

Scanner sc2 = new Scanner(new FileInputStream(Filename));

while(sc2.hasNextLine()) {

String line = sc2.nextLine();

if(line.indexOf(word)!=-1) {

System.out.print("\n enter the replacement");

String replacement = sc2.next();

line.replace(word,replacement);

}

}

}catch(Exception e) {}

}

}

public class Demo1 {

public static void main(String[] args) {

// TODO Auto-generated method stub

String filename;

int x=0;

Scanner sc1 = new Scanner(System.in);

file\_handling obj= new file\_handling();

System.out.print("enter the name of file\n");

filename = sc1.next();

obj.createfile(filename);

do{

System.out.println("Enter 1.create a new file\n2.display file\n3.clear recently created file\n4.update records\n5.search records\n6.delete recently created file\n7.end");

x=sc1.nextInt();

switch(x)

{

case 1:System.out.print("enter the name of file\n");

filename = sc1.next();

obj.createfile(filename);

break;

case 2: obj.displayfile(filename);

case 3 : obj.clearfile(filename); break;

//obj.displayfile(filename);

case 5:obj.search(filename);break;

case 4: obj.update(filename); break;

case 7: break;

}

}while(x!=7);

}

}

Output

