**File 1 : StudentRecordLinkedList.java**

**package** studentmanagement;

**import** java.util.Scanner;

**public** **class** StudentRecordLinkedList {

**public** **static** **void** main(String[] args)

{

StudentRecordManagement hr= **new** StudentRecordManagement();

Record record = **new** Record();

record.setIdNumber(6862);

record.setContactNumber(911);

record.setName("Sanika");

hr.add(record);

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

**int** option = 0;

**do** {

*menu*();

option = input.nextInt();

**switch** (option) {

**case** 1:

System.***out***.print("What is the Student id Number ? ");

**int** idNumber = input.nextInt();

System.***out***.print("What is the Student contact Number ? ");

**int** contactNumber = input.nextInt();

input.nextLine();

System.***out***.print("What is the Student Name ? ");

String name = input.nextLine();

record = **new** Record(name, idNumber,contactNumber);

hr.add(record);

System.***out***.println(record.toString());

**break**;

**case** 2:

System.***out***.print("What is the Student id number ? ");

**int** rId = input.nextInt();

hr.delete(rId);

**break**;

**case** 3:

System.***out***.print("What is the Student id number? ");

**int** rIdNo = input.nextInt();

hr.update(rIdNo, input);

**break**;

**case** 4:

System.***out***.print("What is the Student id ? ");

**int** bookId = input.nextInt();

**if** (!hr.find(bookId)) {

System.***out***.println("Student id does not exist\n");

}

**break**;

**case** 5:

hr.display();

**break**;

**case** 9:

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

"\nThank you for using the program. Goodbye!\n");

System.*exit*(0);

**break**;

**default**:

System.***out***.println("\nInvalid input\n");

**break**;

}

}

**while** (option != 9);

}

**public** **static** **void** menu()

{

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

System.***out***.println("1: Add Student");

System.***out***.println("2: Delete Student");

System.***out***.println("3: Update Student");

System.***out***.println("4: Search Student");

System.***out***.println("5: Display Students");

System.***out***.println("9: Exit program");

System.***out***.print("Enter your selection : ");

}

}

**File 2 : StudentRecordManagement.java**

**package** studentmanagement;

**import** java.util.LinkedList;

**import** java.util.Scanner;

**public** **class** StudentRecordManagement {

LinkedList<Record> list;

**public** StudentRecordManagement()

{

list = **new** LinkedList<>();

}

**public** **void** add(Record record)

{

**if** (!find(record.getIdNumber())) {

list.add(record);

}

**else** {

System.***out***.println("Record already exists in the Record list");

}

}

**public** **boolean** find(**int** idNumber)

{

**for** (Record l : list) {

**if** (l.getIdNumber() == idNumber) {

System.***out***.println(l);

**return** **true**;

}

}

**return** **false**;

}

**public** **void** delete(**int** recIdNumber)

{

Record recordDel = **null**;

**for** (Record ll : list) {

**if** (ll.getIdNumber() == recIdNumber) {

recordDel = ll;

}

}

**if** (recordDel == **null**) {

System.***out***.println("Invalid record Id");

}

**else** {

list.remove(recordDel);

System.***out***.println("Successfully removed record from the list");

}

}

**public** Record findRecord(**int** idNumber)

{

**for** (Record l : list) {

**if** (l.getIdNumber() == idNumber) {

**return** l;

}

}

**return** **null**;

}

**public** **void** update(**int** id, Scanner input)

{

**if** (find(id)) {

Record rec = findRecord(id);

System.***out***.print("What is the new Student id Number ? ");

**int** idNumber = input.nextInt();

System.***out***.print("What is the new Student contact Number ");

**int** contactNumber = input.nextInt();

input.nextLine();

System.***out***.print("What is the new Student Name ? ");

String name = input.nextLine();

rec.setIdNumber(idNumber);

rec.setName(name);

rec.setContactNumber(contactNumber);

System.***out***.println("Record Updated Successfully");

}

**else** {

System.***out***.println("Record Not Found in the Student list");

}

}

**public** **void** display()

{

**if** (list.isEmpty()) {

System.***out***.println("The list has no records\n");

}

**for** (Record record : list) {

System.***out***.println(record.toString());

}

}

}

**File 3: Record.java**

**package** studentmanagement;

**public** **class** Record {

**private** String name;

**private** **int** idNumber;

**private** **int** contactNumber;

**public** Record() {}

**public** Record(String name, **int** idNumber,**int** contactNumber)

{

**this**.name = name;

**this**.idNumber = idNumber;

**this**.contactNumber = contactNumber;

}

**public** **int** getContactNumber() { **return** contactNumber; }

**public** **void** setContactNumber(**int** contactNumber)

{

**this**.contactNumber = contactNumber;

}

**public** **int** getIdNumber() { **return** idNumber; }

**public** **void** setIdNumber(**int** idNumber)

{

**this**.idNumber = idNumber;

}

**public** String getName() { **return** name; }

**public** **void** setName(String name) { **this**.name = name; }

@Override **public** String toString()

{

**return** "Records{"

+ "name=" + name + ", idNumber=" + idNumber

+ ", contactNumber=" + contactNumber + '}';

}

}