**import** java.text.ParseException;

**import** java.text.SimpleDateFormat;

**import** java.util.ArrayList;

**import** java.util.Date;

**import** java.util.List;

**import** java.util.Scanner;

**public** **class** Program1 {

**public** **static** **void** main(String[] args) **throws** NumberFormatException, ParseException {

System.***out***.println("Enter the name of the book");

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

String bookName;

bookName=input.nextLine();

ArrayList<Note>notes=**new** ArrayList<Note>();

Notebook nb=**new** Notebook(bookName,notes);

System.***out***.println("1.Add Note\n2.Delete Note\n3.Display Notes\n4.Exit\nEnter your choice");

**int** choice;

choice=Integer.*parseInt*(input.nextLine());

**while**(choice>0 && choice<4)

{

**if**(choice==1)

{

System.***out***.println("Enter the details of note in CSV format");

String detail;

detail=input.nextLine();

Note note=Note.*CreateNote*(detail);

nb.AddNoteToBook(note);

System.***out***.println("Note Successfully added");

}

**if**(choice==2)

{

System.***out***.println("Enter the name of the note to be deleted");

String name;

name=input.nextLine();

System.***out***.println(nb.RemoveNoteFromBook(name)?"Note successfully deleted":"Note not found in the book");

}

**if**(choice==3)

{

nb.DisplayNotes();

}

System.***out***.println("1.Add Note\n2.Delete Note\n3.Display Notes\n4.Exit\nEnter your choice");

choice=Integer.*parseInt*(input.nextLine());

}

}

}

**class** Note

{

**private** String \_name;

**private** String \_content;

**private** **double** \_size;

**private** **double** \_prioritylevel;

**private** Date \_createdDate;

**public** String get\_name() {

**return** \_name;

}

**public** **void** set\_name(String \_name) {

**this**.\_name = \_name;

}

**public** String get\_content() {

**return** \_content;

}

**public** **void** set\_content(String \_content) {

**this**.\_content = \_content;

}

**public** **double** get\_size() {

**return** \_size;

}

**public** **void** set\_size(**double** \_size) {

**this**.\_size = \_size;

}

**public** **double** get\_prioritylevel() {

**return** \_prioritylevel;

}

**public** **void** set\_prioritylevel(**double** \_prioritylevel) {

**this**.\_prioritylevel = \_prioritylevel;

}

**public** Date get\_createdDate() {

**return** \_createdDate;

}

**public** **void** set\_createdDate(Date \_createdDate) {

**this**.\_createdDate = \_createdDate;

}

**public** Note() {

}

**public** Note(String \_name, String \_content, **double** \_size, **double** \_prioritylevel, Date \_createdDate) {

**this**.\_name = \_name;

**this**.\_content = \_content;

**this**.\_size = \_size;

**this**.\_prioritylevel = \_prioritylevel;

**this**.\_createdDate = \_createdDate;

}

@Override

**public** String toString() {

SimpleDateFormat df =**new** SimpleDateFormat("dd-MM-yyyy");

**return** "Name:" + \_name +"\n"+ "Content:" + \_content +"\n"+ "Size:" + \_size +"\n"+ "Priority Level:"

+ \_prioritylevel +"\n"+ "Created Date:" + df.format(\_createdDate)+"\n";

}

**public** **static** Note CreateNote(String detail) **throws** NumberFormatException, ParseException

{

SimpleDateFormat df=**new** SimpleDateFormat("dd-MM-yyyy");

Note note=**new** Note(detail.split(",")[0],detail.split(",")[1],Double.*parseDouble*(detail.split(",")[2])

,Double.*parseDouble*(detail.split(",")[3]),df.parse(detail.split(",")[4]));

**return** note;

}

}

**class** Notebook

{

**private** String \_name;

**private** List<Note> \_noteList;

**public** String get\_name() {

**return** \_name;

}

**public** **void** set\_name(String \_name) {

**this**.\_name = \_name;

}

**public** List<Note> get\_noteList() {

**return** \_noteList;

}

**public** **void** set\_noteList(List<Note> \_noteList) {

**this**.\_noteList = \_noteList;

}

**public** Notebook() {

}

**public** Notebook(String \_name, List<Note> \_noteList) {

**this**.\_name = \_name;

**this**.\_noteList = \_noteList;

}

**public** **void** AddNoteToBook(Note note)

{

**this**.\_noteList.add(note);

}

**public** **boolean** RemoveNoteFromBook(String name)

{

**boolean** isName=**false**;

**for**(**int** i=0;i<\_noteList.size();i++)

{

**if**(\_noteList.get(i).get\_name().equals(name))

{

isName=**true**;

\_noteList.remove(\_noteList.get(i));

}

}

**return** isName;

}

**public** **void** DisplayNotes()

{

**if**(\_noteList.size()==0)

{

System.***out***.println("No notes to show");

}

**else**

{

SimpleDateFormat df=**new** SimpleDateFormat("dd-MM-yyyy");

System.***out***.println("Notes in"+\_name);

System.***out***.println("Name\tContent\tSize\tCreated Date\tPriority Level");

**for** (Note note : \_noteList) {

System.***out***.println(note.get\_name()+"\t"+note.get\_content()+"\t"+note.get\_size()+"\t"+

df.format(note.get\_createdDate())+"\t"+note.get\_prioritylevel());

}

}

}

}