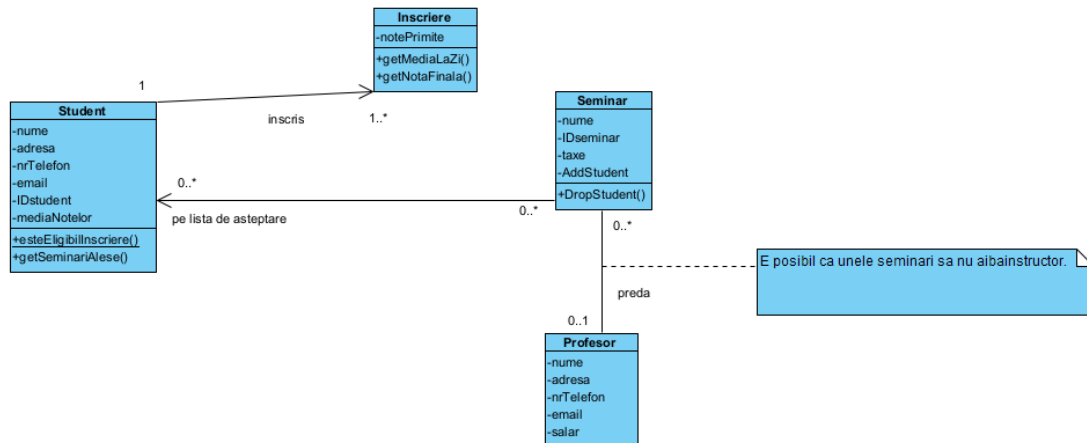


Laborator 5

1.



Clasele si atributele lor:

Student: nume, adresa, nrTelefon, email, IDstudent, mediaNotelor

Insciere: notePrimate

Seminar: nume, IDseminar, taxe, AddStudent

Profesor: nume, adresa, nrTelefon, email, salar

Metodele claselor:

Student: esteEligibilInsciere() , getSeminarAlese()

Insciere: getMediaLaZi() , getNotaFinala()

Seminar: DropStudent()

Profesor:

Relati intre clase:

Student si Insciere: Relatie de tip 1 la 1..* , un student poate avea una sau mai multe inscrieri

Seminar si Student: Relatie de tip 0..* la 0..* , mai multi studenti pot fi pe lista de asteptare a mai multor seminari

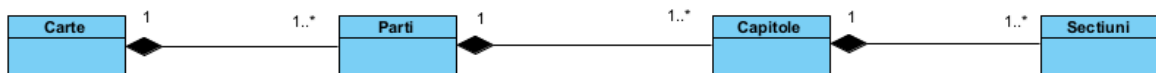
Profesor si Seminar: Relatie de tip 0..1 la 0..* , cel mult un profesor poate predat la mai multe seminari

2.

a)



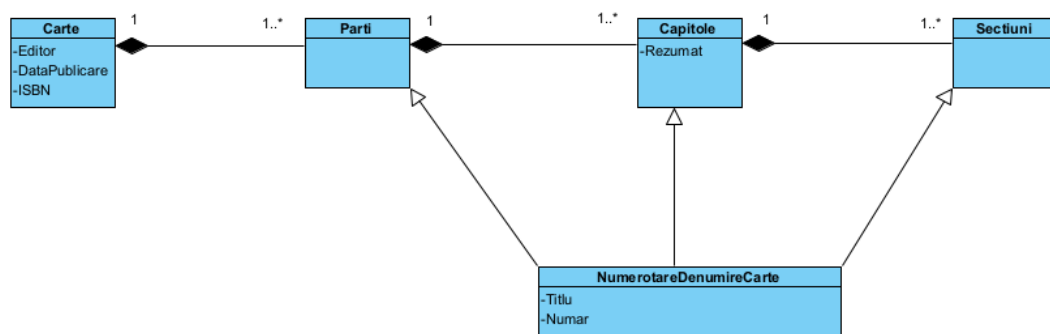
b)



c)



d)



e)

```
1 package lab5;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 class Carte {
7     private String editor;
8     private String dataPublicare;
9     private String ISBN;
10    private List<Parti> parti = new ArrayList<>();
11
12    public Carte(String editor, String dataPublicare, String ISBN) {
13        this.editor = editor;
14        this.dataPublicare = dataPublicare;
15        this.ISBN = ISBN;
16    }
17
18    public void adaugaParte(Parti parte) {
19        parti.add(parte);
20    }
21
22    public List<Parti> getParti() { return parti; }
23 }
```

```
1 package lab5;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 class Parti extends NumerotareDenumireCarte {
7     private List<Capitole> capitole = new ArrayList<>();
8
9     public Parti(String titlu, int numar) {
10        super(titlu, numar);
11    }
12
13    public void adaugaCapitol(Capitole capitol) {
14        capitole.add(capitol);
15    }
16
17    public List<Capitole> getCapitole() { return capitole; }
18 }
```

```

package lab5;

class Sectiuni extends NumerotareDenumireCarte {
    public Sectiuni(String titlu, int numar) {
        super(titlu, numar);
    }
}

```

```

1 package lab5;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 class Capitole extends NumerotareDenumireCarte {
7     private String rezumat;
8     private List<Sectiuni> sectiuni = new ArrayList<>();
9
10    public Capitole(String titlu, int numar, String rezumat) {
11        super(titlu, numar);
12        this.rezumat = rezumat;
13    }
14
15    public void adaugaSectiune(Sectiuni sectiune) {
16        sectiuni.add(sectiune);
17    }
18
19    public List<Sectiuni> getSectiuni() { return sectiuni; }
20 }
21

```

```

package lab5;

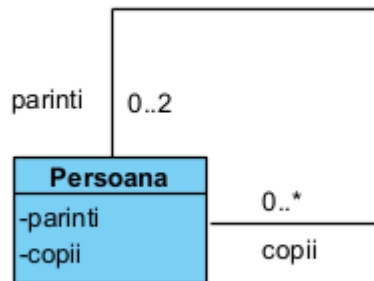
class NumerotareDenumireCarte {
    private String titlu;
    private int numar;

    public NumerotareDenumireCarte(String titlu, int numar) {
        this.titlu = titlu;
        this.numar = numar;
    }

    public String getTitlu() { return titlu; }
    public int getNumar() { return numar; }
}

```

3.



```
package lab5;

import java.util.ArrayList;

public class Persoana {

    public ArrayList<Persoana> copii;
    public ArrayList<Persoana> parinti;

    public Persoana() {
        copii = new ArrayList<Persoana>();
        parinti = new ArrayList<Persoana>();
    }

    @Override
    public String toString() {
        return "Persoana [copii=" + copii.toString() + ", parinti=" + parinti.toString() + "]";
    }

    public void AdaugaParinte(Persoana p) {
        if (parinti.size() >= 2)
            System.out.println("Eroare");
        else {
            parinti.add(p);
            p.copii.add(this);
        }
    }
}

public class Main {

    public static void main(String[] args) {
        Persoana p1 = new Persoana();
        Persoana p2 = new Persoana();
        p1.AdaugaParinte(p2);
        System.out.println(p1);
        System.out.println(p2);
    }
}
```