# Tp à Rendre:

### Class Agence:

#### Class Client:

```
package Exercice_1;

public class Client {
    4 private long id;
    5 private String cin;
    6 private String nom;
    7 private String prenom;
    8 public Client(long id ,String cin ,String nom ,String prenom) {
        this.id = id;
        this.cin = cin;
        this.nom = nom;
        this.prenom = prenom;
}

this.prenom = prenom;
}
```

## Class Compte:

```
1 package Exercice_1;
 3@ import java.time.LocalDate;
 7 public class Compte {
8 private long id;
9 private String numero;
10 private LocalDate dateCreation;
11 List<Operation>operations = new ArrayList<>();
12● public List<Operation> getOperations() {
        return operations;
14 }
15⊕ public void setOperations(List<Operation> operations) {
          this.operations = operations;
17 }
18@ public Compte(long id ,String numero ,LocalDate dateCreation) {
19     this.id = id ;
         this.numero = numero ;
         this.dateCreation = dateCreation ;
23 ● public String getNumero() {
         return numero;
25 }
26⊕ public void setNumero(String numero) {
27 this.numero = numero;
29 public long getId() {
30 return id;
31 }
32● public void setId(long id) {
33 this.id = id;
35● public LocalDate getDateCreation() {
         return dateCreation;
38● public void setDateCreation(LocalDate dateCreation) {
39 this.dateCreation = dateCreation;
     }
}
41
```

### **Class Operation:**

```
package Exercice_1;

import java.time.LocalDate;

public class Operation {
    private long id;
    private LocalDate dateOperation;
    private double montant;
    TypeOperation type;

public Operation(long id ,LocalDate dateOperation,double montant ,TypeOperation type) {
    this.id = id;
    this.dateOperation = dateOperation;
    this.montant = montant;
}

return dateOperation;
}

public void setDateOperation(localDate dateOperation) {
    this.dateOperation = dateOperation;
}

public void setDateOperation(LocalDate dateOperation) {
    this.dateOperation = dateOperation;
}
```

# Class TypeOperation:

```
package Exercice_1;

public enum TypeOperation {

VERS,

RETR,

VIRM

}
```

# Class IAgence:

```
package Exercice_1;

public interface IAgence {
  void addCompte(Compte c);
  Compte getCompte(String numero);
}
```

# Class ICompteManagement:

```
1 package Exercice_1;
2
3 import java.time.LocalDate;
5
6 public interface ICompteManagement {
7 void addOperatin(Compte c,Operation op);
8 List<Operation>getOperation(Compte c ,LocalDate d1 ,LocalDate d2);
9 void PrintDetail(Compte c);
10 }
11
```

### Class CompteManagemts:

```
1 package Exercice_1;
     20 import java.time.LocalDate;
     6 public class CompteManagements implements ICompteManagement {
  7 Agence agence;
8 public CompteManagements(Agence agence){
9 this.agence = agence;
10 }
  110
                   @Override
                   public void addOperatin(Compte c, Operation op) {
    // TODO Auto-generated method stub
△12
<u>2</u>13
                            c.getOperations().add(op);
  17
                   public List<Operation> getOperation(Compte c, LocalDate d1, LocalDate d2) {
    // TODO Auto-generated method stub
 <u></u>18
219
                           List<Operation>result = new ArrayList<>();
for (Operation op:c.getOperations()) {
   LocalDate date = op.getDateOperation();
   if((date.isEqual(d1)||date.isAfter(d1))&&(date.isEqual(d2) || date.isBefore(d2))){
                                             result.add(op);
                            }
                            return result;
                   @Override
                  @Override
public void PrintDetail(Compte c) {
    // TODO Auto-generated method stub
    System.out.println("l'Id du Compte :"+c.getId());
    System.out.println("le numero du Compte"+c.getNumero());
    System.out.println("la date de création :"+c.getDateCreation());
    List<Operation> operations = c.getOperations();
    int start = Math.max(0, operations.size() - 10);
    for (int i = start; i < operations.size(); i++) {
        System out println(operations.gat(i));
    }
}</pre>
 30
231
                                    System.out.println(operations.get(i));
```

#### Class Main:

```
package Exercice_1;

import java.time.LocalDate;

public class Programm {

public static void main(String[] args) {

public static void main(String[] args) {

y/TODO Auto-generated method stub

Agence a = new Agence();

CompteManagements compteM = new CompteManagements(a);

compteManagements compte = a.getCompte("A123");

compteM.addOperatin(compte, new Operation(1L ,LocalDate.of(2025, 5, 10),-150.0,TypeOperation.VERS));

compteM.addOperatin(compte, new Operation(2L ,LocalDate.of(2025, 5, 12),200.0,TypeOperation.VIRM));

List<Operation op : operation) {

System.out.println(op);
}

compteM.PrintDetail(compte);
}

compteM.PrintDetail(compte);
}
</pre>
```