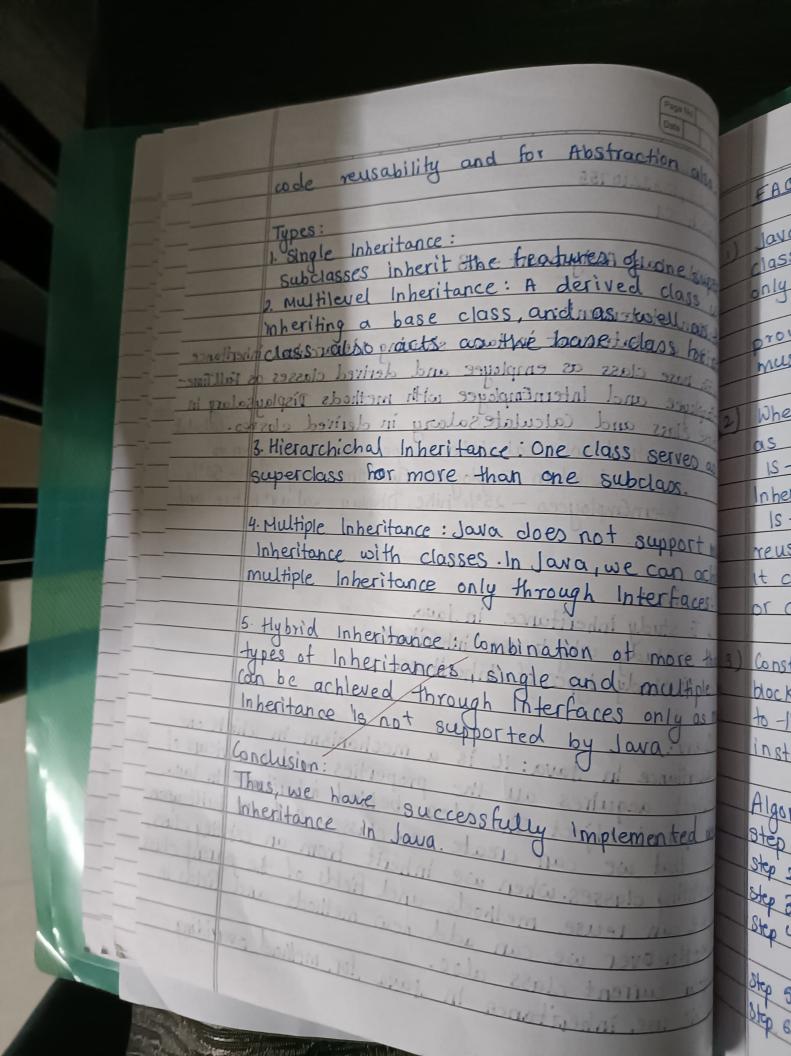
Devarshu Surana 11 19 Law Willed Batch CI from on oocci stab Assignment - 28 Mandal Control fore than pated from Nrite a statement in Java showing hierarchical inheritance is with base class as employee and derived classes as Full Timess is in - Employee and Internemployee with methods Displaysalary in Base class and calculatesalary in derived classes. Coloubet ore than salary method will calculate as per increment given to full time and intern Employees Full time employee - 50% hike InternEmployees - 25% hike. Display salary before and specifi after shike ton osolo and: small and method interfered with closees. In land, we can ach Objective and Apported who madisalal soften whether 1. To study inheritance in Java e mem 2. To study why to use inheritance use men 3. To study types of Inheritance 15= Theory: I and had noted Inheritance in Java: It is a mechanism in which one object acquires all the properties and behaviours of a parent object. The idea behind inheritance in Java ice code is that we can create new classes that are built upon existing classes. When we inherit from an existing class, we can reuse methods and fields of the parent class, we More over we can add new methods and fields in we use inheritance in Java for method overriding



MGTTACHOR the diene FAQ'S sived day Java does not support multiple inheritance with Os to sell o classes. In Java use can achieve multiple inheritance nei-class h only through Interfaces. I'm Interface is a blueprint of a class that Date Son provides a set of abstract methods that a class The same of the sa must implement. class seven Whenever one class inherits another class, it is called as 15-A relationship. Subclass IS-A relationship to white completely related to Inheritance. to t ampount Is-A relationship is additionally used for code reusability in Java and to avoid code redundancy we con It can simply be achieved by extending an interface Interface or class by using extend keyword of more (3) Constructors and Initializers both static infiblization block and instanc Initialization block are not inherited nd multi to the subclass but they get executed during the ces only in instantiation of the subclass. Java 9 Algorithm Step1: Start plemented stop 2: create base class employee the 3: create derived classes wring extend keyword Step 4: Calculate salary by giving 50% hike to hultime and 25% to intern Stop 6: Display solary after hite

```
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```

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## OOCCJ LAB ASSIGNMENT 2B

```
import java.io.*;
import java.lang.*;
import java.util.*;
class employee{
Scanner myObj= new Scanner(System.in);
double salary;
void getsalary(){
System.out.println("Enter the Salary of Employee: ");
salary=myObj.nextDouble();
System.out.println(" Salary: " + salary);
}
void displaysalary(){
System.out.println("Salary after increment is: " + salary);
}
class InternEmployee extends employee{
void calculatesalary(){
salary = 1.25 * salary;
```

```
class PermEmployee extends employee{
void calculatesalary(){
salary = 1.50 * salary;
}
class 2b{
  public static void main(String args[]){
  PermEmployee e1=new PermEmployee();
  InternEmployee e2=new InternEmployee();
  el.getsalary();
  el.calculatesalary();
  e1.displaysalary();
  e2.getsalary();
  e2.calculatesalary();
 e2.displaysalary();
  }
}
Enter the Salary of Employee:
96000
 Salary: 96000.0
Salary after increment is: 144000.0
Enter the Salary of Employee:
54000
 Salary: 54000.0
Salary after increment is: 67500.0
(base) computer@computer:~/Desktop$
```