LAB-3 PRACTICE PROGRAMS

PROGRAM 1

INPUT:

C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_3\Empmain.java - Sublime Text (UNREGISTERED)

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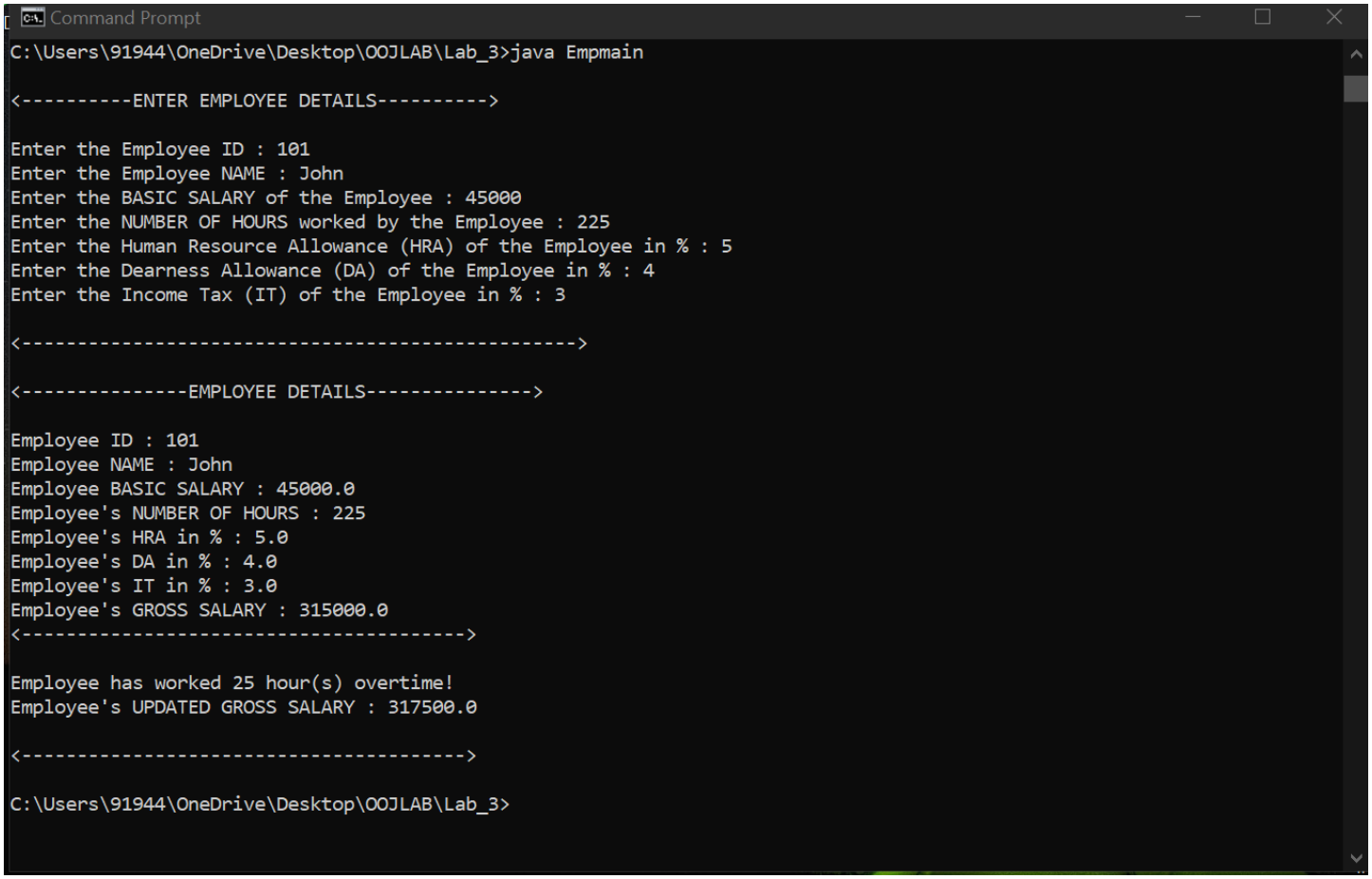
Booksmain.java | Empmain.java

```java
import java.util.Scanner;

class Employee
{
    int empid;
    String empname;
    double empbasic;
    int empnohrs;
    double emphra;
    double empda;
    double empit;
    double empgross;
    double amt;
    Scanner ss = new Scanner(System.in);

    Employee()
    {
        empid = 0;
        empname = "";
        empbasic = 0.0;
        empnohrs = 0;
        emphra = 0.0;
        empda = 0.0;
        empit = 0.0;
        empgross = 0.0;
    }

    void accept()
    {
        System.out.println("\n<----------ENTER EMPLOYEE DETAILS---------->\n");
        System.out.print("Enter the Employee ID : ");
        empid = ss.nextInt();
        System.out.print("Enter the Employee NAME : ");
        empname = ss.next();
        System.out.print("Enter the BASIC SALARY of the Employee : ");
        empbasic = ss.nextDouble();
        System.out.print("Enter the NUMBER OF HOURS worked by the Employee : ");
        empnohrs = ss.nextInt();
        System.out.print("Enter the Human Resource Allowance (HRA) of the Employee in % : ");
        emphra = ss.nextDouble();
        System.out.print("Enter the Dearness Allowance (DA) of the Employee in % : ");
        empda = ss.nextDouble();
        System.out.print("Enter the Income Tax (IT) of the Employee in % : ");
        empit = ss.nextDouble();
        System.out.println("\n<---------------------------------------------------->\n");
    }

    void compute()
    {
        empgross = empbasic + (empbasic * emphra) + (empbasic * empda) - (empbasic * empit);
        if (empnohrs > 200)
            amt = (empnohrs - 200) * 100;
        else
            amt = (200 - empnohrs) * 100;
    }

    void display()
    {
        System.out.println("<---------------EMPLOYEE DETAILS--------------->\n");
        System.out.println("Employee ID : "+empid);
        System.out.println("Employee NAME : "+empname);
        System.out.println("Employee BASIC SALARY : "+empbasic);
        System.out.println("Employee's NUMBER OF HOURS : "+empnohrs);
        System.out.println("Employee's HRA in % : "+emphra);
        System.out.println("Employee's DA in % : "+empda);
        System.out.println("Employee's IT in % : "+empit);
        System.out.println("Employee's GROSS SALARY : "+empgross);
        System.out.println("<---------------------------------------->\n");
        if (empnohrs > 200)
        {
            System.out.println("Employee has worked "+(empnohrs - 200)+" hour(s) overtime!");
            System.out.println("Employee's UPDATED GROSS SALARY : "+(empgross + amt));
        }
        if (empnohrs < 200)
        {
            System.out.println("Employee has worked "+(200 - empnohrs)+" hour(s) lesser than expected!");
            System.out.println("Employee's UPDATED GROSS SALARY : "+(empgross - amt));
        }
        System.out.println("\n<---------------------------------------->");
    }
}
```

```java
class Empmain
{
    public static void main(String[] args)
    {
        Employee e1 = new Employee();
        e1.accept();
        e1.compute();
        e1.display();
    }
}
```

OUTPUT:



PROGRAM 2

INPUT:

C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_3\Agemain.java - Sublime Text (UNREGISTERED)

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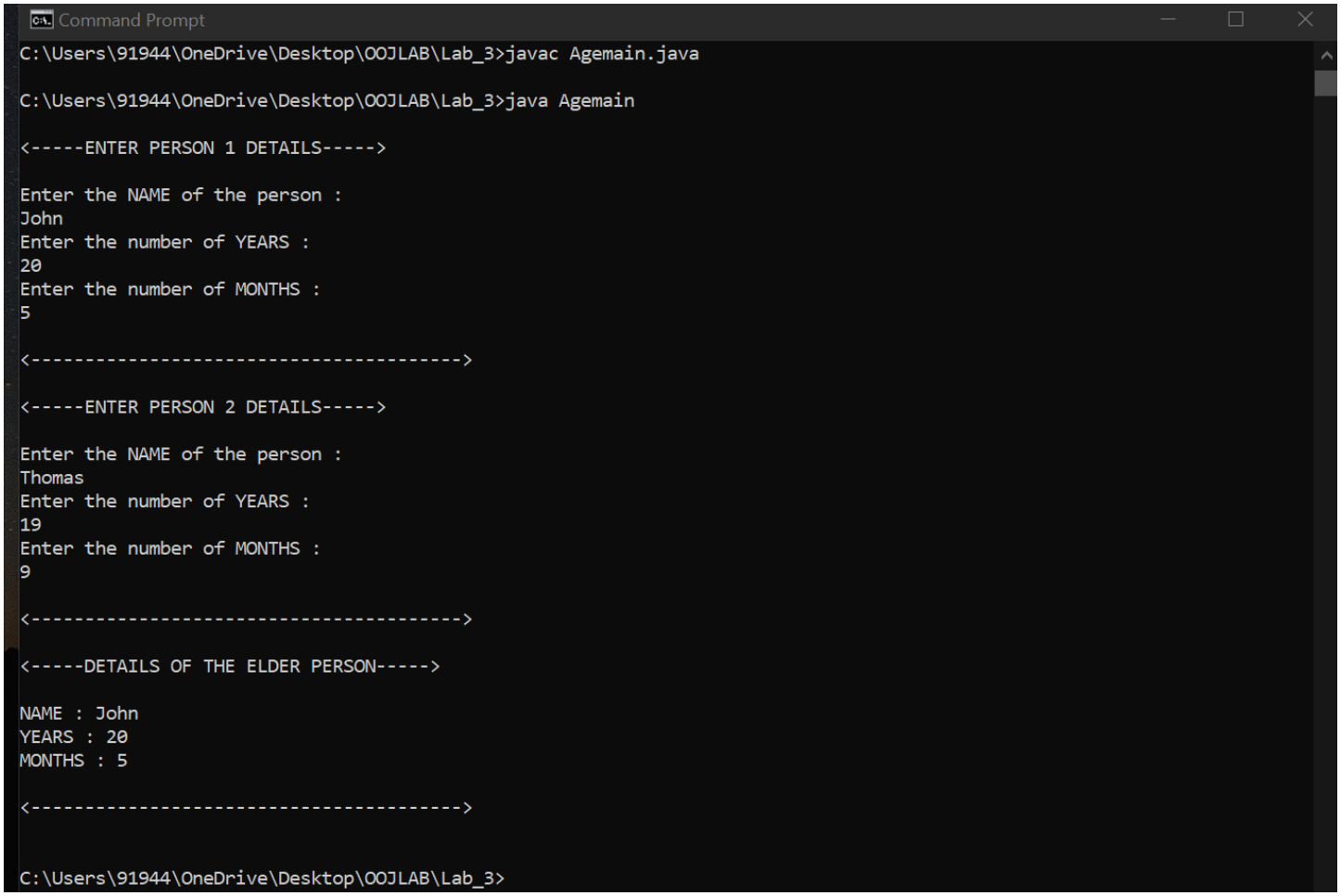
Booksmain.java | Empmain.java | Agemain.java

```java
import java.util.Scanner;

class Age
{
    int years;
    int months;
    String name;
    Scanner ss = new Scanner(System.in);

    void accept()
    {
        System.out.println("Enter the NAME of the person :");
        name = ss.next();
        System.out.println("Enter the number of YEARS :");
        years = ss.nextInt();
        System.out.println("Enter the number of MONTHS :");
        months = ss.nextInt();
        System.out.println("\n<---------------------------------------->");
    }

    int compute()
    {
        int totmonths;
        totmonths = (years * 12) + months;
        return totmonths;
    }

    void display()
    {
        System.out.println("\n<-----DETAILS OF THE ELDER PERSON----->\n");
        System.out.println("NAME : "+name);
        System.out.println("YEARS : "+years);
        System.out.println("MONTHS : "+months);
        System.out.println("\n<---------------------------------------->\n");
    }
}

class Agemain
{
    public static void main(String[] args)
    {
        int tot1, tot2;
        Age a1 = new Age();
        Age a2 = new Age();
        System.out.println("\n<-----ENTER PERSON 1 DETAILS----->\n");
        a1.accept();
        System.out.println("\n<-----ENTER PERSON 2 DETAILS----->\n");
        a2.accept();
        tot1 = a1.compute();
        tot2 = a2.compute();
        if (tot1 > tot2)
            a1.display();
        else if (tot2 > tot1)
            a2.display();
        else
            System.out.println("<-----BOTH THE PERSONS ARE OF THE SAME AGE!----->");
    }
}
```

OUTPUT:


Command Prompt
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_3>javac Agemain.java
C:\Users\91944\OneDrive\Desktop\OOJLAB\Lab_3>java Agemain
<-----ENTER PERSON 1 DETAILS----->
Enter the NAME of the person :
John
Enter the number of YEARS :
20
Enter the number of MONTHS :
5
<-->
<-----ENTER PERSON 2 DETAILS----->
Enter the NAME of the person :
Thomas
Enter the number of YEARS :
19
Enter the number of MONTHS :
9
<-->
<-----DETAILS OF THE ELDER PERSON----->
NAME : John
YEARS : 20
MONTHS : 5
<-->
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