PRACTICE - 5

/*Write a Java program to create a class Employee with members empid, empname, empnohrs, empbasic, emphra(%), empda(%), empit(%), empgross. Include methods to do the following:

i. Accept all values from the user. Note HRA, DA and IT are given in %

*/

ii. Calculate the gross salary based on the formula empgross= empbasic + empbasic*emphra + empbasic*empda - empbasic*empit iii. Consider the overtime amount to be Rs.100 per hour. If empnohrs >200, for everyhour the employee is to be given additional payment Calculate the additional payment and update the gross. If empnohrs<200, reduce Rs.100 per hour and update the gross.

```
import java.util.Scanner;
class Employee
 private int empid, empnohrs, h;
 private String empname;
 private double empbasic,emphra,empda,empit,empgross;
void accept()
 Scanner sc = new Scanner(System.in);
 System.out.println("----");
 System.out.println("Enter Employee id:");
 empid=sc.nextInt();
 System.out.println("Enter Employee name:");
 empname=sc.next();
 System.out.println("Enter the Basic pay of the employee:");
 empbasic=sc.nextDouble();
 System.out.println("Enter the number of hours the employee has worked for:");
 empnohrs=sc.nextInt();
 System.out.println("Enter the House rent allowance(%):");
 emphra=sc.nextDouble();
 System.out.println("Enter dearness allowance(%):");
 empda=sc.nextDouble();
 System.out.println("Enter Income tax(%):");
 empit=sc.nextDouble();
void calculate()
```

```
if(empnohrs>200)
   empgross =
empbasic+((empbasic*emphra)/100)+((empbasic*empda)/100)-((empbasic*empit)/100)+((empbasic*empit)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+((empbasic*emphra)/100)+
ohrs-200)*100);
 }
 else
   empgross =
empbasic+((empbasic*emphra)/100)+((empbasic*empda)/100)-((empbasic*empit)/100)-((200-e
mpnohrs)*100);
}
void display()
 System.out.println("\t*******");
  System.out.println("\n Employee details are:");
 System.out.println(" ID:"+" " + empid);
  System.out.println(" NAME:"+" "+ empname);
 System.out.println(" EMPGROSS:"+" " + empgross);
class Employeemain
 public static void main(String args[])
     Scanner sc=new Scanner(System.in);
      System.out.println("Enter the number of employees:");
      int n = sc.nextInt();
      Employee e[]=new Employee[n];
     for(int i=0;i< n;i++)
       e[i]=new Employee();
for(int i=0;i< n;i++)
 System.out.println("Enter Employee"+" "+(i+1)+" details:");
 e[i].accept();
 e[i].calculate();
for(int i=0;i< n;i++)
e[i].display();
```

```
Command Prompt
D:\coding files\OOJ Lab>java Employeemain
Enter the number of employees:
Enter Employee 1 details:
Enter Employee id:
Enter Employee name:
Enter the Basic pay of the employee:
Enter the number of hours the employee has worked for:
Enter the House rent allowance(%):
Enter dearness allowance(%):
Enter Income tax(%):
2157.5
Enter Employee 2 details:
Enter Employee id:
Enter Employee name:
sin
Enter the Basic pay of the employee:
Enter the number of hours the employee has worked for:
Enter the House rent allowance(%):
Enter dearness allowance(%):
Enter Income tax(%):
4157
        ******
 Employee details are:
 ID: 1
 NAME: hem
 EMPGROSS: 2177400.0
```

```
Enter the House rent allowance(%):
12000
Enter dearness allowance(%):
8000
Enter Income tax(%):
4157
        ******
 Employee details are:
 ID: 1
 NAME: hem
 EMPGROSS: 2177400.0
        ******
 Employee details are:
 ID: 2
 NAME: sin
 EMPGROSS: 6361700.0
```

/*Create a class Age which has the members – years and months. Collect the age of two people (Choose their names yourself) (create two age objects) and find who is the elder of the two people.*/

```
import java.util.Scanner;
class age
{
    private int years,months;
    private String name;
    private int a;
    void accept(){
        System.out.println("Enter name:");
        Scanner sc = new Scanner(System.in);
        name=sc.next();
        System.out.println("Enter age in years and months:");
        years=sc.nextInt();
        months=sc.nextInt();
}
```

```
int calculate()
if(years>1)
a=(years*12)+months;
else
a=years+months;
return a;
void display()
System.out.println("Person with name " + name +" "+ "is elder");
class Agemain
public static void main(String args[])
 age a1=new age();
 age a2=new age();
 a1.accept();
 a2.accept();
if(a1.calculate()>a2.calculate())
a1.display();
}
else
a2.display();
}
```

```
D:\coding files\OOJ Lab>java Agemain
Enter name:
hem
Enter age in years and months:
19 1
Enter name:
sin
Enter age in years and months:
25 7
Person with name sin is elder

D:\coding files\OOJ Lab>
```