13.10.2020 Extra Qns -

1) Write Java program to make class Employee with members empid, empname, empnohrs, empbasic, emphra(%), empda(%), empit(%), empgross.

Include following methods:

1. Accept all values from user.
2. Calculate, empgross = empbasic + (empbasic * emphra) + (empbasic * empda) - (empbasic * empit)
3. Overtime amount is Rs. 100 per hour
   if empnohrs > 200, for every hour employee is given additional payment and update the gross.
4. If empnohrs < 200, reduce Rs. 100 per hour and update gross.

```
import java.util.Scanner;
class Employee {
int empid;
String empname;
int empnohrs;
int empbasic;
double emphra;
double empda;
double empit;
double empgross;

void accept() {
Scanner xx = new Scanner (System.in);
System.out.println ("Enter details -");
System.out.println ("Enter ID :");
empid = xx.nextInt();
System.out.println ("Enter Name :");
empname = xx.next();
System.out.println ("Enter no. of hours :");
empnohrs = xx.nextInt();
System.out.println ("Enter basic salary :");
empbasic = xx.nextInt();
System.out.println ("Enter HRA in %.");
emphra = xx.nextDouble();
System.out.println ("Enter DA in %.");
```

```
empda = xx.nextDouble();
System.out.println("Enter it in %. ");
empit = xx.nextDouble();
}

double salary()
{
empgross = embbasic + (empbasic * (emphra/100)) + (empbasic *
(empda /100)) - (empbasic * (empit /100));
return empgross;
}

void overtime()
{
int x;
if (empnohrs >200) {
x = empnohrs - 200;
x* =100;
System.out.println("additional payment=" + x + "\n gross
Salary after addition = " + (empgross + x));
}
else if (empnohrs <200) {
x = 200 - empnohrs;
x* = 100;
```

```
System.out.println("reduced payment = "+x+"\n gross salary
after reduction = "+(empgross-x));
  }
 }
}
```

2) Create a class age which has the members - years and months. Collect the age of 2 people (choose their names yourself) (create 2 age objects) and find who is the elder of the 2 people.

```
import java.util.Scanner;
class Age {
 String name;
 int year;
 int month;

void accept()
{
Scanner xx = new Scanner(System.in);
System.out.println("Enter name - ");
name = xx.next();
System.out.println("Enter year - ");
year = xx.nextInt();
```

```
System.out.println("Enter month : ");
month = xx.nextInt();
}

int add() {
int sum=0;
sum = month + (year * 12);
return sum;
}

String oname(){
return name;
}
}

class Main {
public static void main( String ss[]) {
Age n1 = new Age();
n1.accept();
n1.add();
n1.oname();
Age n2 = new Age();
n2.accept();
n2.add();
```

```
n2.oname();
if (n1.add() > n2.add())
    {
  System.out.printf(n1.oname()+" is older");
    }
  else if (n2.add() > n1.add())
  {
  System.out.println(n2.oname()+" is older");
    }
    }
    }
```