



- Q1) Write a Java Program to create Employee with members empid, empname, empnohrs, empbasic, emphra(1%), empda(1%), empit(1%), empgross. Include methods to do the following:
- Accept all values from the user. Note HRA, DA and IT are given in %.
  - Calculate the gross salary based on the formula  

$$\text{empgross} = \text{empbasic} + \text{empbasic} * \text{emphra} + \text{empbasic} * \text{empda} - \text{empbasic} * \text{empit}$$
  - Consider the overtime amount to be Rs 100 per hour. If empnohrs > 200, for every hour the employee is to 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
{
```

```
    String empid;
    String empname;
    int empnohrs;
    double empbasic, emphra, empda, empit, empgross;
    void accept()
    {
```

```
        System.out.println("Enter Employee details");
        Scanner xx = new Scanner(System.in);
        System.out.println("Enter employee ID:");
        empid = xx.next();
        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.nextDouble();
System.out.println("Enter HRA percentage :");
emphra = xx.nextDouble();
System.out.println("Enter DA percentage :");
empda = xx.nextDouble();
System.out.println("Enter IT percentage :");
empit = xx.nextDouble();
}

void calculate()
{
    double additional = 0.0;
    empgross = empbasic + empbasic * emphra + empbasic *
               emphra - empbasic * empit;
    if (empnohrs > 200)
    {
        System.out.println("gross salary : " + empgross);
        additional = (empnohrs - 200) * 100;
        empgross + = additional;
        System.out.println("overtime amount : " + additional);
        System.out.println("final salary : " + empgross);
    }
    if (empnohrs < 200)
    {
        System.out.println("gross salary : " + empgross);
        additional = (200 - empnohrs) * 100;
        empgross = empgross - additional;
        System.out.println("overtime amount : " + additional);
        System.out.println("final salary : " + empgross);
    }
}

```

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```
public static void main(String args[])  
{  
    Employee e = new Employee();  
    e.accept();  
    e.calculate();  
}
```



Q2) 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 ~~not~~ find who is the ~~elder~~ elder of the two people.

```
import java.util.Scanner;
class Age
{
    int years;
    int months;
    public static void main (String [] args)
    {
        Scanner xx = new Scanner (System.in);
        Age a1 = new Age ();
        Age a2 = new Age ();
        System.out.println ("Enter age of Rashmi");
        a1.years = xx.nextInt();
        a1.months = xx.nextInt();
        System.out.println ("Enter age of Simran");
        a2.years = xx.nextInt();
        a2.months = xx.nextInt();
        if (a1.years > a2.years)
        {
            System.out.println ("Rashmi is elder than Simran");
        }
        else if (a2.years > a1.years)
        {
            System.out.println ("Simran is elder than Rashmi");
        }
    }
}
```



```
else if (a1.years == a2.years)
```

```
{
```

```
if (a1.months > a2.months)
```

```
{
```

```
System.out.println("Rashmi is elder than Simran");
```

```
}
```

```
else if (a2.months > a1.months)
```

```
{
```

```
System.out.println("Simran is elder than Rashmi");
```

```
}
```

```
else
```

```
{
```

```
System.out.println("Both are of same age");
```

```
}
```

```
}
```

```
}
```

```
}
```