

LAB-3 Extra Program-1

1. Write a Java Program to create a class Employee with members empid, empname, empphon, 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 formula

$$\text{empgross} = \text{empbasic} + \text{empbasic} * \text{emphbasic} * \text{emphra} + \text{empbasic} * \text{empda} - \text{empbasic} * \text{empit}$$

iii. Consider overtime to be 100/- per hour. If empphon > 200, then every hour the employee is to be given additional payment. Calculate the additional payment and update the gross.

Code: `import java.io.*;`
`import java.util.*;`

`class Employee`

`{`

`public static void main (String args[])`

`{`

`double gross;`

`Scanner sc = new Scanner (System.in);`

`System.out.println("Enter name:");`

`String empname = sc.next();`

`System.out.println("Enter no of hrs");`

```

int empnohrs = sc.nextInt();
System.out.println("Enter basic");
double empbasic = sc.nextDouble();
System.out.println("Enter da:");
double empda = sc.nextDouble();
System.out.println("Enter hra:");
double emphra = sc.nextDouble();
System.out.println("Enter it:");
double empit = sc.nextDouble();

```

```

gross = (empbasic + (empbasic * (emphra/100)) +
(empbasic * (empda/100)) - (empbasic * (empit/100)));
if (empnohrs > 200)
{
gross = (empnohrs - 200) * 100;
}
else if (empnohrs < 200)
{
gross = (200 - empnohrs) * 100;
}
System.out.println("The gross salary of " + empnohrs
+ gross);
}
}

```


LAB 3 - Extra Program - 2

Ques Create a class Age which has the members - years and months. Collect the age of two people (choose their names yourself) (Create two age object) and find who elder of the two people.

```
CODE: class Age
{
    private int age;
    private int years;
    private int months;
    Age()
    {
        age = 0;
        months = 0;
        years = 0;
    }
    void getdetails()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter years:");
        years = sc.nextInt();
        System.out.println("Enter months:");
        months = sc.nextInt();
    }
    public int calculate()
    {
        int extra = (months % 12);
        years = years + extra;
        return years;
    }
}
```

```
class Main
```

```
{
```

```
    public static void main (String args[])
```

```
    {
```

```
        Age a1 = new Age();
```

```
        Age a2 = new Age();
```

```
        if (a1.calculate() < a2.calculate())
```

```
        {
```

```
            System.out.println("Person 1 is elder");
```

```
        }
```

```
    else
```

```
    {
```

```
        System.out.println("Person 2 is elder");
```

```
    }
```

```
}}
```