

Sunbeam Institute of Information Technology Pune,Karad

Java Assignment 6

Create Emp based organization structure with : Emp , Mgr , Worker

All of above classes must be in package--com.app.org

a) Emp state--- id(int), name, deptId(string) , basic(double)

Emp id should NOT be accepted from user. It should be auto generated , in auto increment manner

Hint : add static data member : idGenerator

Increment it and assign it to emp id in emp class constructor.

Get emp details -- using overriding form of toString

b) Mgr state ---id,name,basic,deptId , performanceBonus

Behaviour ----1. get mgr details : via toString

compute net salary (formula: basic+perfmonceBonus)

get performance bonus.

c) Worker state --id,name,basic,deptId,hoursWorked,hourlyRate

Behaviour---

get worker details -- via toString

compute net salary (formula: = basic+(hoursWorked*hourlyRate)

get hrlyRate of the worker -- add a new method to return hourly rate of a worker.(getter)

Can you organize these classes in inheritance hierarchy?

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d) Write TestOrganization in "tester" package.

Create suitable array to store organization details. Provide following options.
Run the application till "exit"

1. Hire Manager

2. Hire Worker

3. Display information of all employees , including net salary using single for-each loop.

Display from the same for-each loop, performance bonus if it's a manager or if it's a worker , display hourly rate of the worker .

4. Update basic salary

i/p : emp id & increment in basic component of salary

o/p : In case of invalid emp id , give suitable error message. Otherwise , increment the salary.

5. Exit