

```
1 package madhav;
2 import java.util.Scanner;
3 class Faculty5{
4     private String name;
5     private double salary;
6     public Faculty5(String name, double salary) {
7         this.name = name;
8         this.salary = salary;
9     }
10    public double bonus(float percent){
11        return (percent/100.0)*salary;
12    }
13    // Define method getDetails()
14    public String getDetails() {
15        return name+" , "+salary;
16    }
17    // Override method getDetails(float percent)
18    public String getDetails(float p) {
19        //return name+" , "+salary+" , bonus =" +bonus(p);
20        return getDetails()+" , bonus =" +bonus(p);
21    }
22 }
23 class Hod5 extends Faculty5{
24     private String personalAssistant;
25     public Hod5(String name, double salary, String pa) {
26         super(name, salary);
27         this.personalAssistant = pa;
28     }
29     // Override method bonus(float percent)
30     public double bonus(float p) {
31         return super.bonus(p)*0.5;
32     }
33     // Override method getDetails()
34     public String getDetails() {
35         return super.getDetails()+" , "+personalAssistant;
36     }
37     // Override method getDetails(float percent)
38     public String getDetails(float p) {
39         return getDetails()+" , bonus =" +bonus(p);
40     }
41 }
42 public class InheritanceTest{
43     public static void main(String[] args) {
```

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44      Scanner sc=new Scanner(System.in);
45      Faculty5 obj1 = new Faculty5(sc.next(), sc.nextDouble
    ());
46      Faculty5 obj2 = new Hod5(sc.next(), sc.nextDouble(),
    sc.next());
47      System.out.println(obj1.getDetails());
48      System.out.println(obj1.getDetails(10));
49      System.out.println(obj2.getDetails());
50      System.out.println(obj2.getDetails(10));
51  }
52 }
```