

Write the Java code as instructed.

- Class **Faculty** has the following members.
  - **String name**, **double salary** as private instance variables
  - Constructor to initialize the instance variables
  - Method **public double bonus(float percent)** that returns the bonus computed as  $(\text{percent}/100.0) * \text{salary}$
  - You should define method **getDetails()** to display **name** and **salary** of an **Faculty**
  - You should overload method **getDetails()** as **getDetails(float percent)** to display the **name**, **salary** and **bonus** of an **Faculty**
- Class **Hod** extends class **Faculty** and has the following members.
  - **String personalAssistant** as private instance variable
  - Constructor to initialize the instance variables of **Hod** that includes the instance variables of **Faculty**
  - You should override method **public double bonus(float percent)** that returns the bonus of a **Hod** as 50 percent less bonus than a regular faculty
  - You should override method **getDetails()** to display the **name**, **salary** and **personalAssistant** of **Hod**.
  - You should override method **getDetails(float percent)** to display the **name**, **salary**, **personalAssistant** and **bonus** of a **Hod**
- Class **InheritanceTest** has the **main** method and the following functionality.
  - It creates objects of **Faculty** and **Hod** types, and also accepts the required input values.
  - Invokes methods **getDetails()** and **getDetails(float percent)** on **Faculty** and **Hod** objects.

## Test Run Results

### Test Case 1

Input	Expected Output	Actual Output
Srihari 50000	Srihari, 50000.0	
Vishnu 80000 laxmi	Srihari, 50000.0, bonus = 5000.0	
	Vishnu, 80000.0, laxmi	
	Vishnu, 80000.0, laxmi, 4000.0	

### Test Case 2

Input	Expected Output	Actual Output
Mohan 45000	Mohan, 45000.0	
Manoj 78000 dhanush	Mohan, 45000.0, bonus = 4500.0	
	Manoj, 78000.0, dhanush	
	Manoj, 78000.0, dhanush, 3900.0	

## Submission Results

### Test Case 1

Input	Expected Output	Actual Output
Manjula 65000	Manjula, 65000.0	
Ganesh 87000 Harsha	Manjula, 65000.0, bonus = 6500.0	
	Ganesh, 87000.0, Harsha	
	Ganesh, 87000.0, Harsha, 4350.0	