Write a class called **Employee** that includes the following:

1. Three private instance variables:
   * name (String)
   * id (int)
   * salary (double)
2. A static variable employeeCount to keep track of how many Employee objects have been created.
3. Two constructors:
   * A constructor that takes no arguments. It initializes the name to "Unknown". It should also increment employeeCount.
   * A constructor with parameters that allows setting the name, id, and salary. This constructor should also increment employeeCount.
4. Getters and setters for the name, id, and salary variables.
5. A *displayInfo* method that should display the name, id, and salary of the employee.
6. An overloaded *displayInfo* method that takes a tax percentage as an input parameter, it should display the employee's name, id, original salary, tax amount (calculated from the given tax percentage), and the new salary after deducting the tax.
7. A static method called getEmployeeCount() that returns the total number of employees created.

Finally, in the main method, create two Employee objects and demonstrate the functionality of the class, including displaying employee information and printing the total number of employees created.

public class Employee {

private String name;

private int id;

private double salary;

// Static variable to count the number of employees

private static int employeeCount = 0;

// No-argument constructor

public Employee() {

this.name = "Unknown";

employeeCount++; // Increase employee count when a new employee is created

}

// Constructor with parameters

public Employee(String name, int id, double salary) {

this.name = name;

this.id = id;

this.salary = salary;

employeeCount++; // Increase employee count when a new employee is created

}

// Getter and Setter for name

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

// Getter and Setter for id

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

// Getter and Setter for salary

public double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

// Method to display full employee information (name, id, salary)

public void displayInfo() {

System.out.println("Name: " + name + ", ID: " + id + ", Salary: " + salary);

}

// Overloaded method to display name, id, and salary after tax calculation

public void displayInfo(double taxPercentage) {

double taxAmount = (salary \* taxPercentage) / 100;

double newSalary = salary - taxAmount;

// Display the details including tax calculation

System.out.println("Employee Info (After Tax):");

System.out.println("Name: " + name);

System.out.println("ID: " + id);

System.out.println("Original Salary:" + salary);

System.out.println("Tax Amount: " + taxAmount);

System.out.println("New Salary after Tax: " + newSalary);

}

// Static method to get the total number of employees

public static int getEmployeeCount() {

return employeeCount;

}

public static void main(String[] args) {

Employee emp1 = new Employee("Enas ", 9, 1000.0);

Employee emp2 = new Employee("Canaan", 6, 1500.0);

// Use setters to update employee details

emp1.setSalary(2000.0);

// Display employee information using overloaded methods

emp1.displayInfo(10.0); // Display after 10% tax

emp2.displayInfo(15.0); // Display after 15% tax

// Display the total number of employees created

System.out.println("Total Employees: " + Employee.getEmployeeCount());

}

}