

Solution:

// Employee superclass

```
class Employee {
    private int employeeID;
    private String name;
    private double salary;

    public Employee(int employeeID, String name, double salary) {
        this.employeeID = employeeID;
        this.name = name;
        this.salary = salary;
    }

    public int getEmployeeID() {
        return employeeID;
    }

    public String getName() {
        return name;
    }

    public double getSalary() {
        return salary;
    }

    public String toString() {
        return "Employee ID: " + employeeID + ", Name: " + name + ", Salary: " + salary;
    }

    public static double totalSalary(Employee[] employees) {
        double total = 0;
        for (Employee employee : employees) {
            total += employee.getSalary();
        }
        return total;
    }
}
```

// Professor subclass

```
class Professor extends Employee {
    private String subjectOfExpertise;

    public Professor(int employeeID, String name, double salary, String
subjectOfExpertise) {
        super(employeeID, name, salary);
        this.subjectOfExpertise = subjectOfExpertise;
    }

    public String getSubjectOfExpertise() {
        return subjectOfExpertise;
    }

    public String toString() {
        return super.toString() + ", Subject of Expertise: " + subjectOfExpertise;
    }
}
```

// Administrator subclass

```
class Administrator extends Employee {
    private String department;

    public Administrator(int employeeID, String name, double salary, String department) {
        super(employeeID, name, salary);
        this.department = department;
    }

    public String getDepartment() {
        return department;
    }

    public String toString() {
        return super.toString() + ", Department: " + department;
    }
}
```

// SupportStaff subclass

```
class SupportStaff extends Employee {
    private String jobTitle;

    public SupportStaff(int employeeID, String name, double salary, String jobTitle) {
        super(employeeID, name, salary);
        this.jobTitle = jobTitle;
    }

    public String getJobTitle() {
        return jobTitle;
    }

    public String toString() {
        return super.toString() + ", Job Title: " + jobTitle;
    }
}
```

// Main class

```
public class UniversityEmployees {

    public static void main(String[] args) {

        // Create some employees
        Employee employee1 = new Professor(1001, "AB Bishal", 70000, "Computer
Science");
        Employee employee2 = new Administrator(2001, "Tasnim Ahnat", 50000,
"Admissions");
        Employee employee3 = new SupportStaff(3001, "Tony Kroos", 35000,
"Custodian");

        // Print employee details
        System.out.println(employee1.toString());
        System.out.println(employee2.toString());
        System.out.println(employee3.toString());

        // Calculate total salary
        Employee[] employees = {employee1, employee2, employee3};
        double totalSalary = Employee.totalSalary(employees);
        System.out.println("Total salary: " + totalSalary);
    }
}
```