

```
import java.util.Scanner;
```

```
class Person {
```

```
    protected String name;
```

```
    protected String gender;
```

```
    protected String address;
```

```
    protected int age;
```

```
    public Person(String name, String gender, String address, int age) {
```

```
        this.name = name;
```

```
        this.gender = gender;
```

```
        this.address = address;
```

```
        this.age = age;
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);
```

```
        // Input details for a person
```

```
        System.out.println("Enter details for a person:");
```

```
        System.out.print("Name: ");
```

```
        String name = scanner.nextLine();
```

```
        System.out.print("Gender: ");
```

```
        String gender = scanner.nextLine();
```

```
        System.out.print("Address: ");
```

```
        String address = scanner.nextLine();
```

```
        System.out.print("Age: ");
```

```
int age = scanner.nextInt();

// Create a person object
Person person = new Person(name, gender, address, age);

// Display details of the person
System.out.println("\nDetails of the person:");
System.out.println("Name: " + person.name);
System.out.println("Gender: " + person.gender);
System.out.println("Address: " + person.address);
System.out.println("Age: " + person.age);

// Close the scanner
scanner.close();
}
}

class Employee extends Person {
    protected int empld;
    protected String companyName;
    protected String qualification;
    protected double salary;

    public Employee(String name, String gender, String address, int age, int empld, String
companyName, String qualification, double salary) {
        super(name, gender, address, age);
        this.empld = empld;
```

```
    this.companyName = companyName;

    this.qualification = qualification;

    this.salary = salary;
}
}
```

```
class Teacher extends Employee {

    private String subject;

    private String department;

    private int teacherId;


    public Teacher(String name, String gender, String address, int age, int empId, String
companyName, String qualification, double salary, String subject, String department, int teacherId) {

        super(name, gender, address, age, empId, companyName, qualification, salary);

        this.subject = subject;

        this.department = department;

        this.teacherId = teacherId;
    }


    public void display() {

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

        System.out.println("Gender: " + gender);

        System.out.println("Address: " + address);

        System.out.println("Age: " + age);

        System.out.println("Employee ID: " + empId);

        System.out.println("Company Name: " + companyName);

        System.out.println("Qualification: " + qualification);
    }
}
```

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

        System.out.println("Subject: " + subject);

        System.out.println("Department: " + department);

        System.out.println("Teacher ID: " + teacherId);

    }

}
```

```
public class Main {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of teachers: ");

        int n = scanner.nextInt();

        scanner.nextLine(); // consume newline


        Teacher[] teachers = new Teacher[n];


        for (int i = 0; i < n; i++) {

            System.out.println("Enter details for teacher " + (i + 1) + ":");

            System.out.print("Name: ");

            String name = scanner.nextLine();

            System.out.print("Gender: ");

            String gender = scanner.nextLine();

            System.out.print("Address: ");

            String address = scanner.nextLine();

            System.out.print("Age: ");

            int age = scanner.nextInt();

            scanner.nextLine(); // consume newline
```

```
System.out.print("Employee ID: ");

int empld = scanner.nextInt();

scanner.nextLine(); // consume newline

System.out.print("Company Name: ");

String companyName = scanner.nextLine();

System.out.print("Qualification: ");

String qualification = scanner.nextLine();

System.out.print("Salary: ");

double salary = scanner.nextDouble();

scanner.nextLine(); // consume newline

System.out.print("Subject: ");

String subject = scanner.nextLine();

System.out.print("Department: ");

String department = scanner.nextLine();

System.out.print("Teacher ID: ");

int teacherId = scanner.nextInt();

scanner.nextLine(); // consume newline
```

```
teachers[i] = new Teacher(name, gender, address, age, empld, companyName, qualification,
salary, subject, department, teacherId);
```

```
}
```

```
// Displaying details of teachers
```

```
System.out.println("\nDetails of Teachers:");
```

```
for (int i = 0; i < n; i++) {
```

```
    System.out.println("\nDetails of Teacher " + (i + 1) + ":");
```

```
    teachers[i].display();
```

}

}

}