//Design



//Code

**package** EmployeeManagement;

**import** java.util.Scanner;

**class** Date {

**private** **int** month;

**private** **int** day;

**private** **int** year;

/\*\*

\* Constructs a Date object with the specified month, day, and year.

\*

\* **@param** month The month (1-12).

\* **@param** day The day (1-31).

\* **@param** year The year (greater than 1900 and less than 2020).

\*/

**public** Date(**int** month, **int** day, **int** year) {

**this**.month = month;

**this**.day = day;

**this**.year = year;

}

@Override

**public** String toString() {

**return** month + "/" + day + "/" + year;

}

}

**class** Name {

**private** String firstName;

**private** String lastName;

/\*\*

\* Constructs a Name object with the specified first name and last name.

\*

\* **@param** firstName The first name.

\* **@param** lastName The last name.

\*/

**public** Name(String firstName, String lastName) {

**this**.firstName = firstName;

**this**.lastName = lastName;

}

@Override

**public** String toString() {

**return** firstName + " " + lastName;

}

}

**class** Address {

**private** String street;

**private** String city;

**private** String state;

**private** String zipCode;

/\*\*

\* Constructs an Address object with the specified street, city, state, and zip code.

\*

\* **@param** street The street address.

\* **@param** city The city.

\* **@param** state The state (2 characters).

\* **@param** zipCode The zip code (5 digits).

\*/

**public** Address(String street, String city, String state, String zipCode) {

**this**.street = street;

**this**.city = city;

**this**.state = state;

**this**.zipCode = zipCode;

}

@Override

**public** String toString() {

**return** street + ", " + city + ", " + state + " " + zipCode;

}

}

**class** Employee {

**private** **int** employeeNumber;

**private** Name name;

**private** Address address;

**private** Date hireDate;

/\*\*

\* Constructs an Employee object with the specified employee number, name, address, and hire date.

\*

\* **@param** employeeNumber The employee number.

\* **@param** name The name (a Name object).

\* **@param** address The address (an Address object).

\* **@param** hireDate The hire date (a Date object).

\*/

**public** Employee(**int** employeeNumber, Name name, Address address, Date hireDate) {

**this**.employeeNumber = employeeNumber;

**this**.name = name;

**this**.address = address;

**this**.hireDate = hireDate;

}

@Override

**public** String toString() {

**return** "Employee Number: " + employeeNumber + "\nName: " + name + "\nAddress: " + address + "\nHire Date: " + hireDate + "\n";

}

}

**public** **class** EmployeeManagement {

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

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

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

**int** numEmployees = scanner.nextInt();

scanner.nextLine(); // Consume the newline

Employee[] employees = **new** Employee[numEmployees];

**for** (**int** i = 0; i < numEmployees; i++) {

System.***out***.println("\nEnter Employee #" + (i + 1) + " details:");

System.***out***.print("Employee Number: ");

**int** empNumber = scanner.nextInt();

scanner.nextLine();

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

String firstName = scanner.nextLine();

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

String lastName = scanner.nextLine();

System.***out***.print("Street: ");

String street = scanner.nextLine();

System.***out***.print("City: ");

String city = scanner.nextLine();

System.***out***.print("State (2 characters): ");

String state = scanner.nextLine();

System.***out***.print("Zip Code (5 digits): ");

String zipCode = scanner.nextLine();

System.***out***.print("Hire Date (MM DD YYYY): ");

**int** month = scanner.nextInt();

**int** day = scanner.nextInt();

**int** year = scanner.nextInt();

scanner.nextLine(); // Consume the newline

// Create Name, Address, and Date objects

Name name = **new** Name(firstName, lastName);

Address address = **new** Address(street, city, state, zipCode);

Date hireDate = **new** Date(month, day, year);

// Create an Employee object and store it in the array

employees[i] = **new** Employee(empNumber, name, address, hireDate);

}

System.***out***.println("\nEmployee Details:");

**for** (Employee employee : employees) {

System.***out***.println(employee);

}

scanner.close();

}//end class

}//end main

//Output

