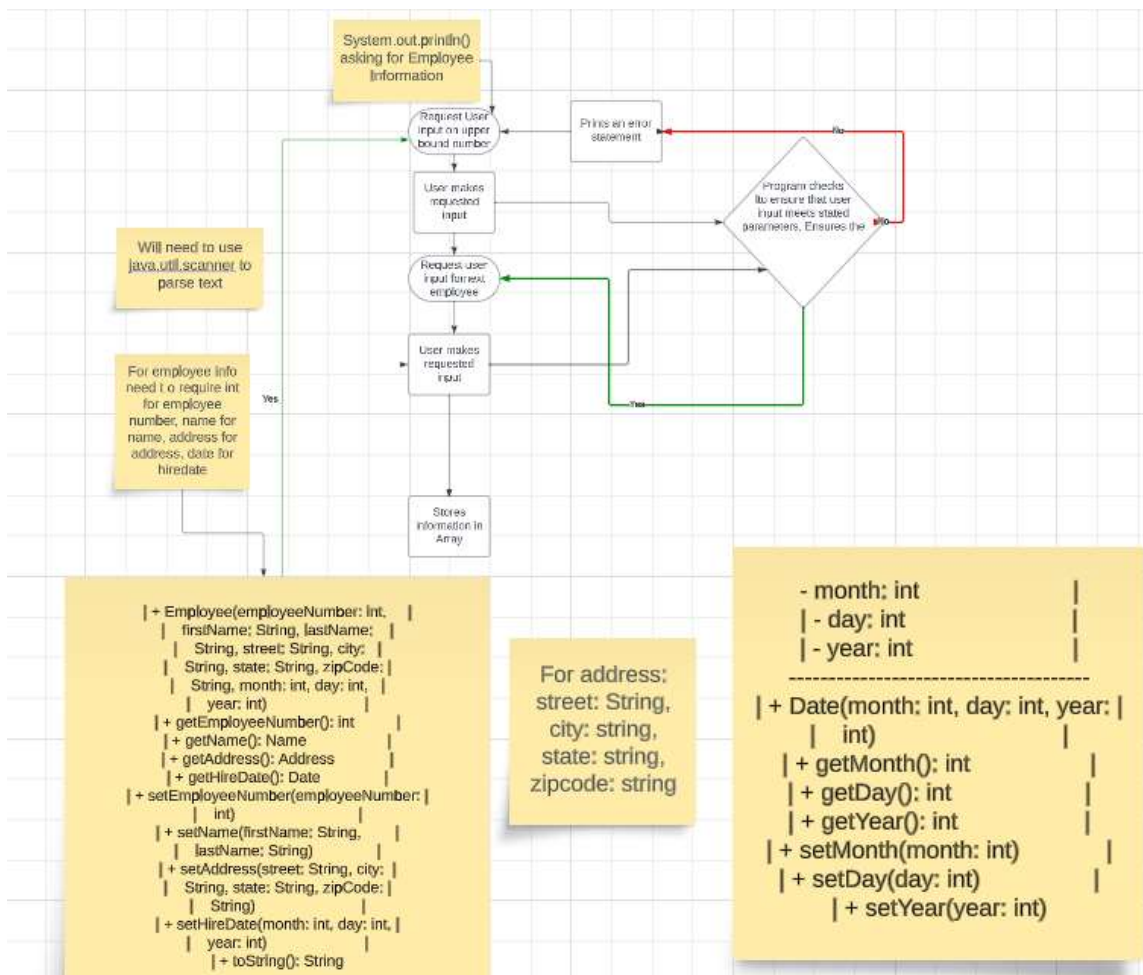


//Design



//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);

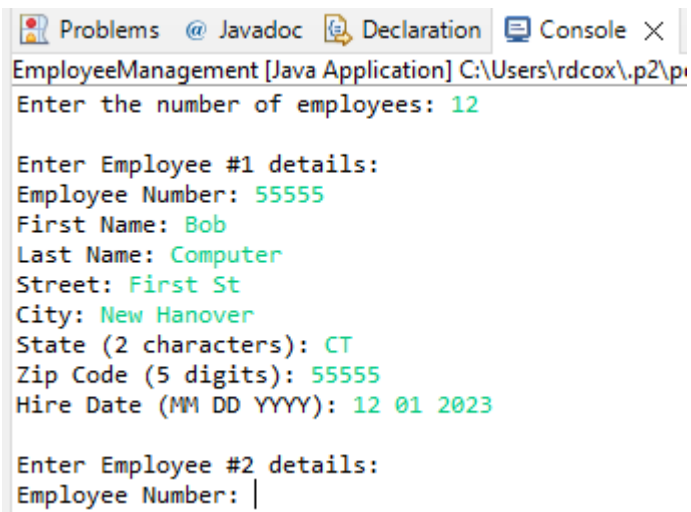
        // Create an Employee object and store it in the array
        employees[i] = new Employee(empNumber, name, address, hireDate);
    }

    System.out.println("\nEmployee Details:");
    for (Employee employee : employees) {
        System.out.println(employee);
    }

    scanner.close();
} //end class
} //end main

```

//Output



The screenshot shows a Java IDE window with the 'Console' tab selected. The title bar indicates the file path is 'C:\Users\rdcox\p2\p...'. The console output shows the program prompting for the number of employees (12), then for the details of Employee #1 (Employee Number: 55555, First Name: Bob, Last Name: Computer, Street: First St, City: New Hanover, State: CT, Zip Code: 55555, Hire Date: 12 01 2023), and finally for Employee #2 (Employee Number: |).

```

EmployeeManagement [Java Application] C:\Users\rdcox\p2\p...
Enter the number of employees: 12

Enter Employee #1 details:
Employee Number: 55555
First Name: Bob
Last Name: Computer
Street: First St
City: New Hanover
State (2 characters): CT
Zip Code (5 digits): 55555
Hire Date (MM DD YYYY): 12 01 2023

Enter Employee #2 details:
Employee Number: |

```