FINAL PROJECT REPORT

ABOUT

STAFF RESTAURANT

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POLITEKNIK NEGERI MALANG

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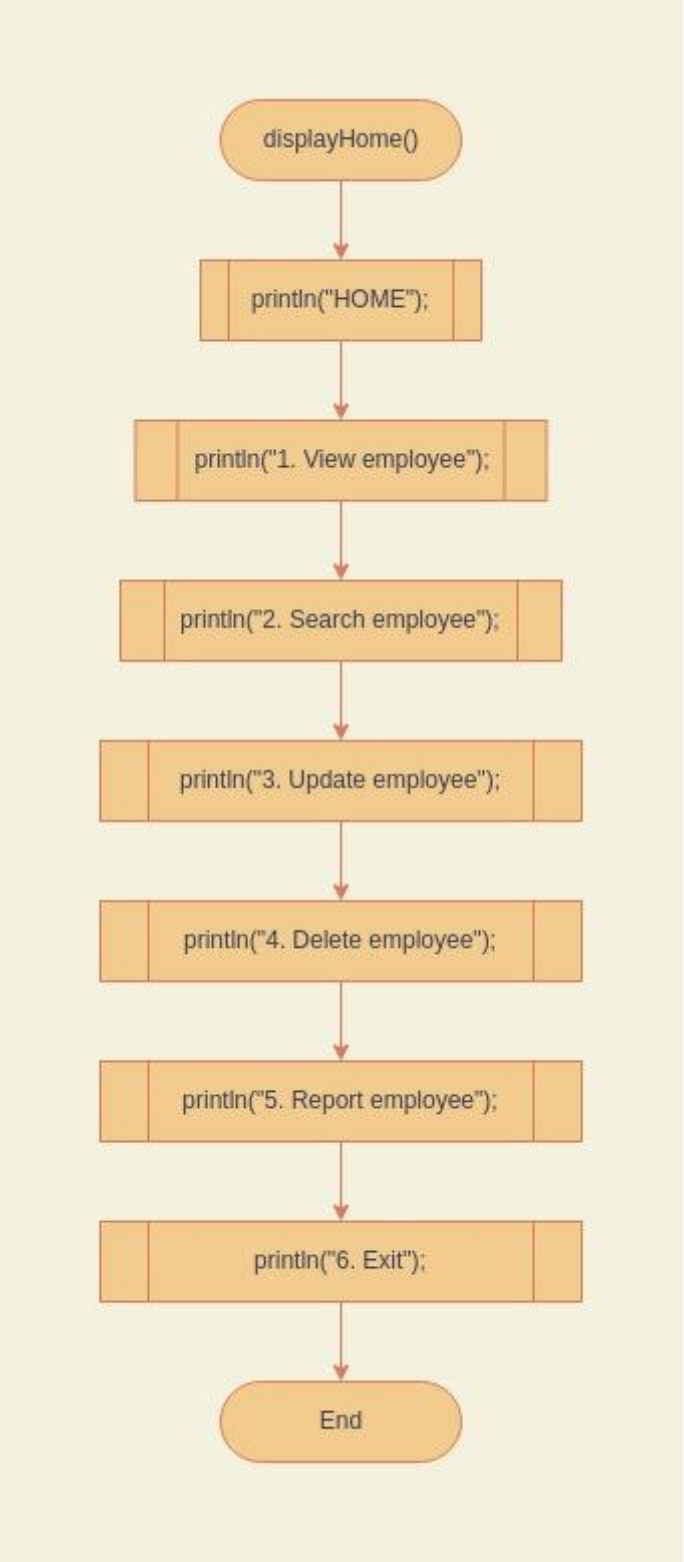
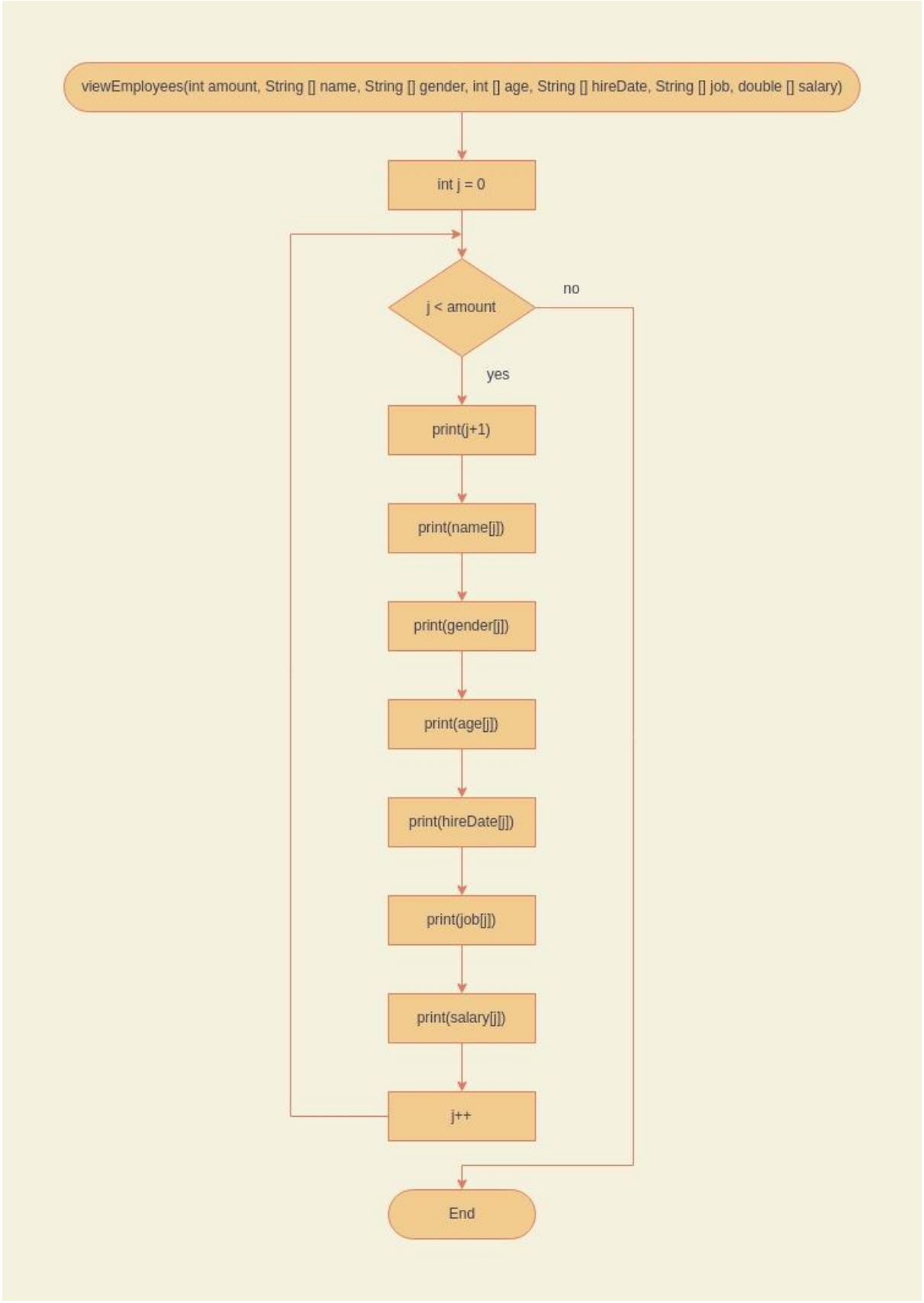
1.1 Flowchart

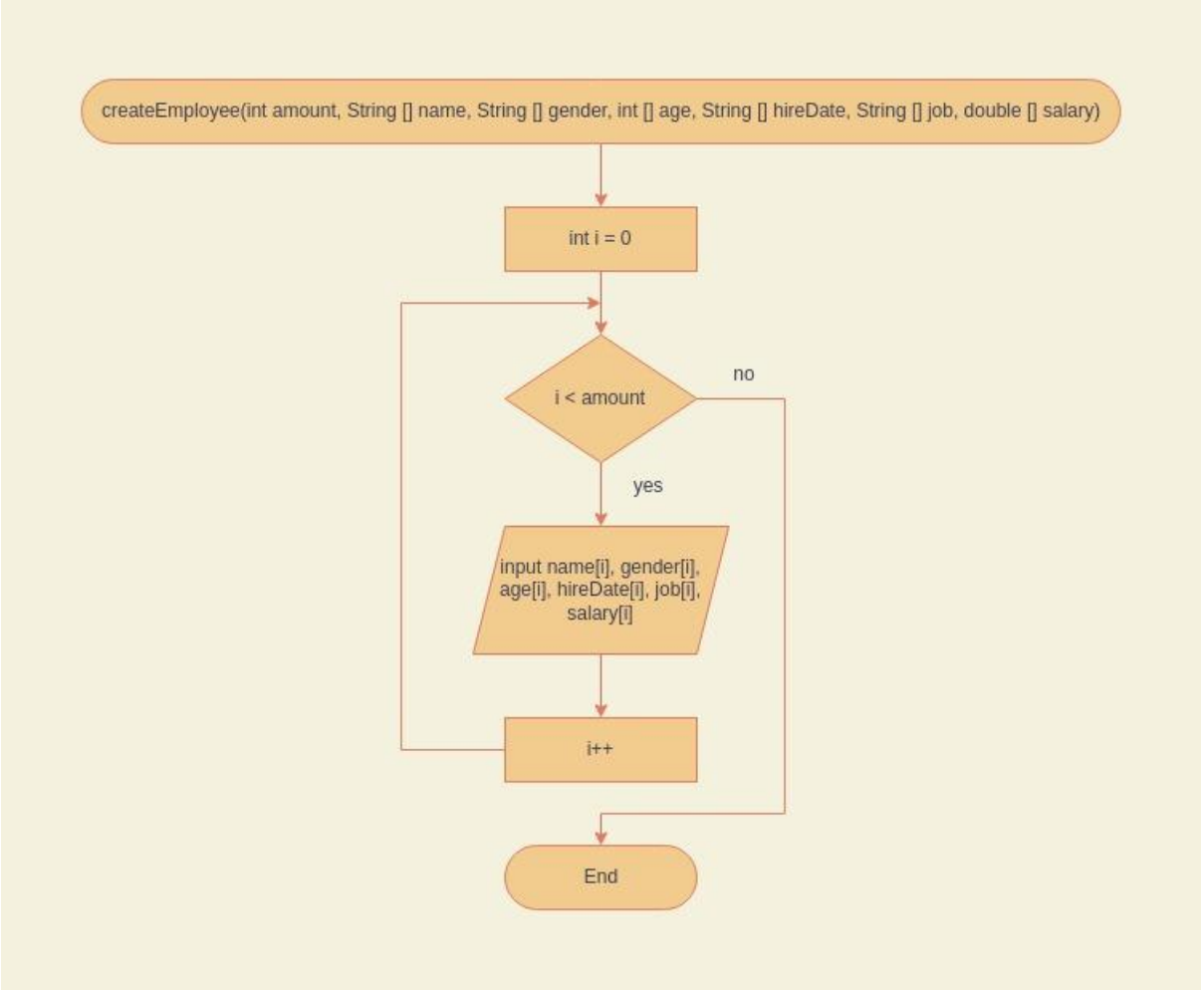
- **Function displayHome**



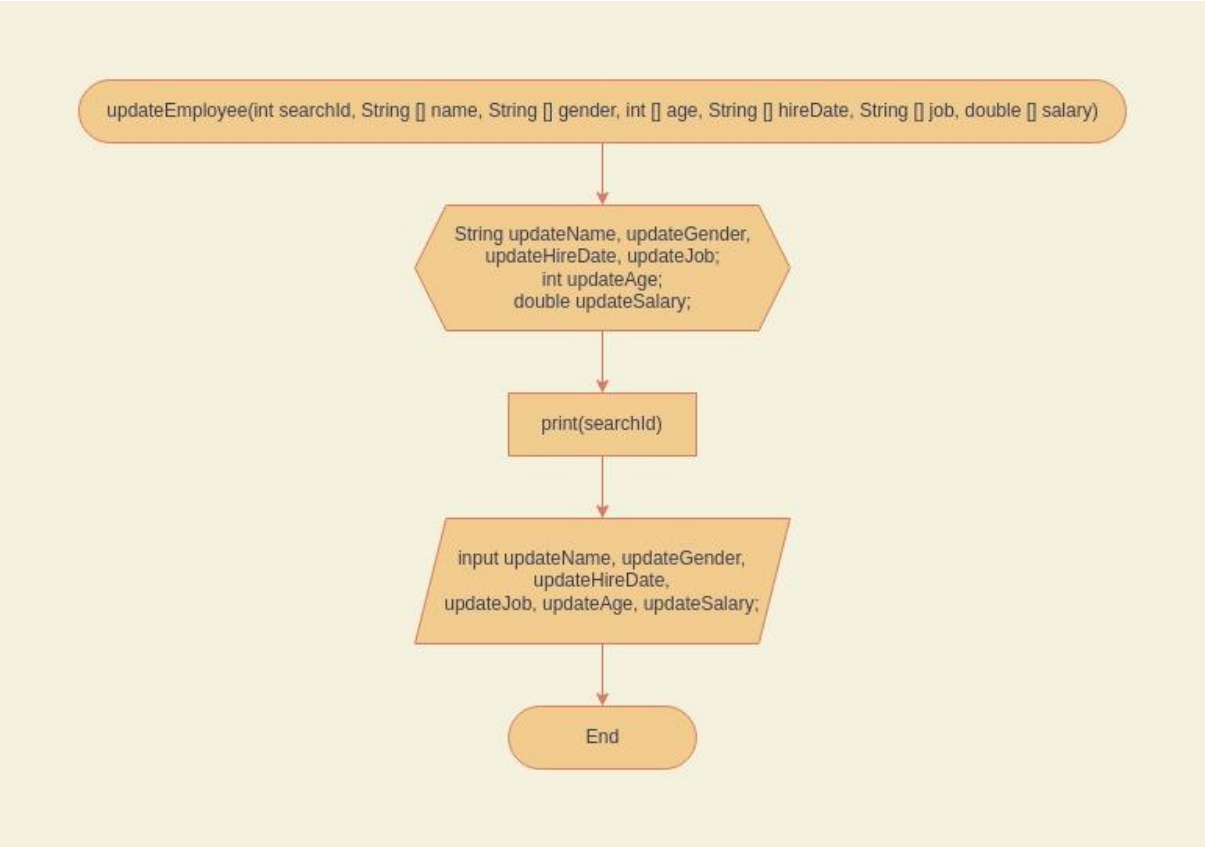
- **Function viewEmployees**



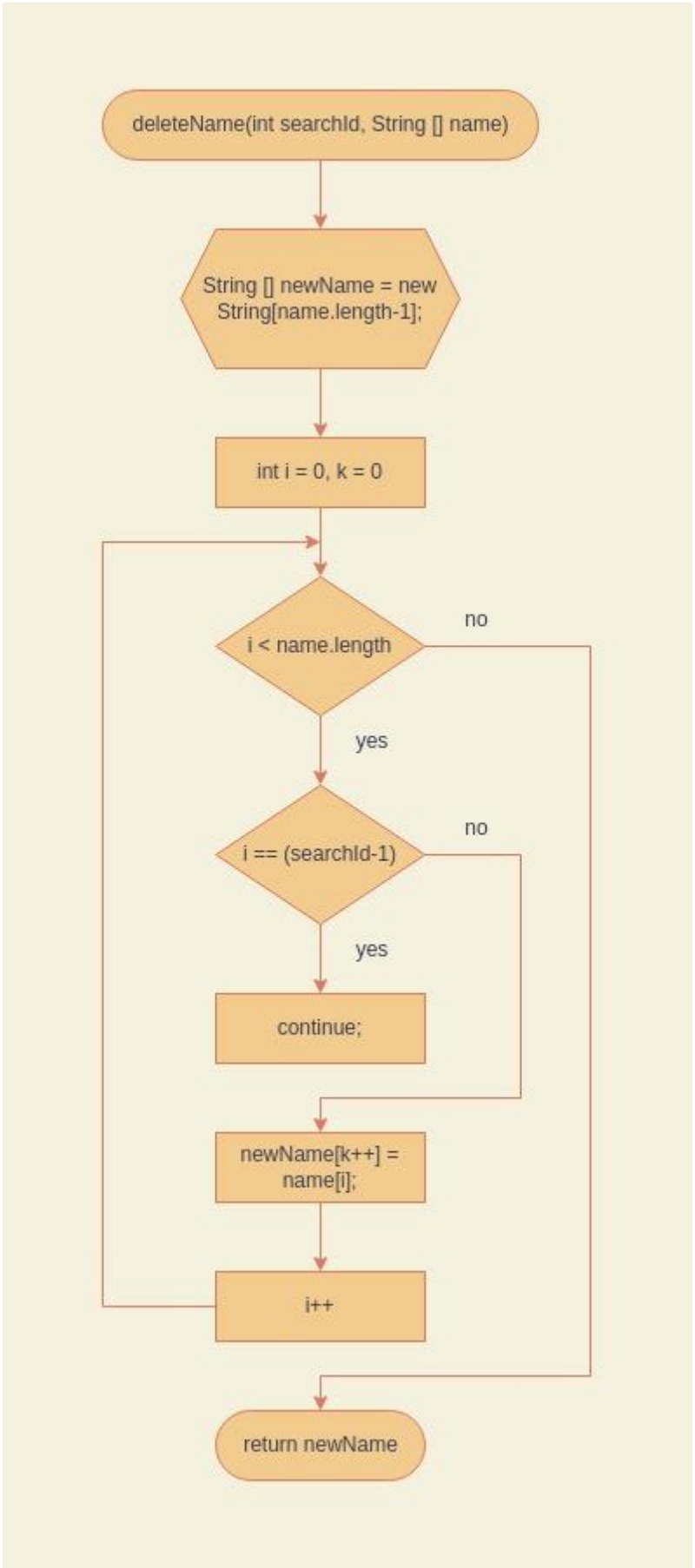
- **Function createEmployee**



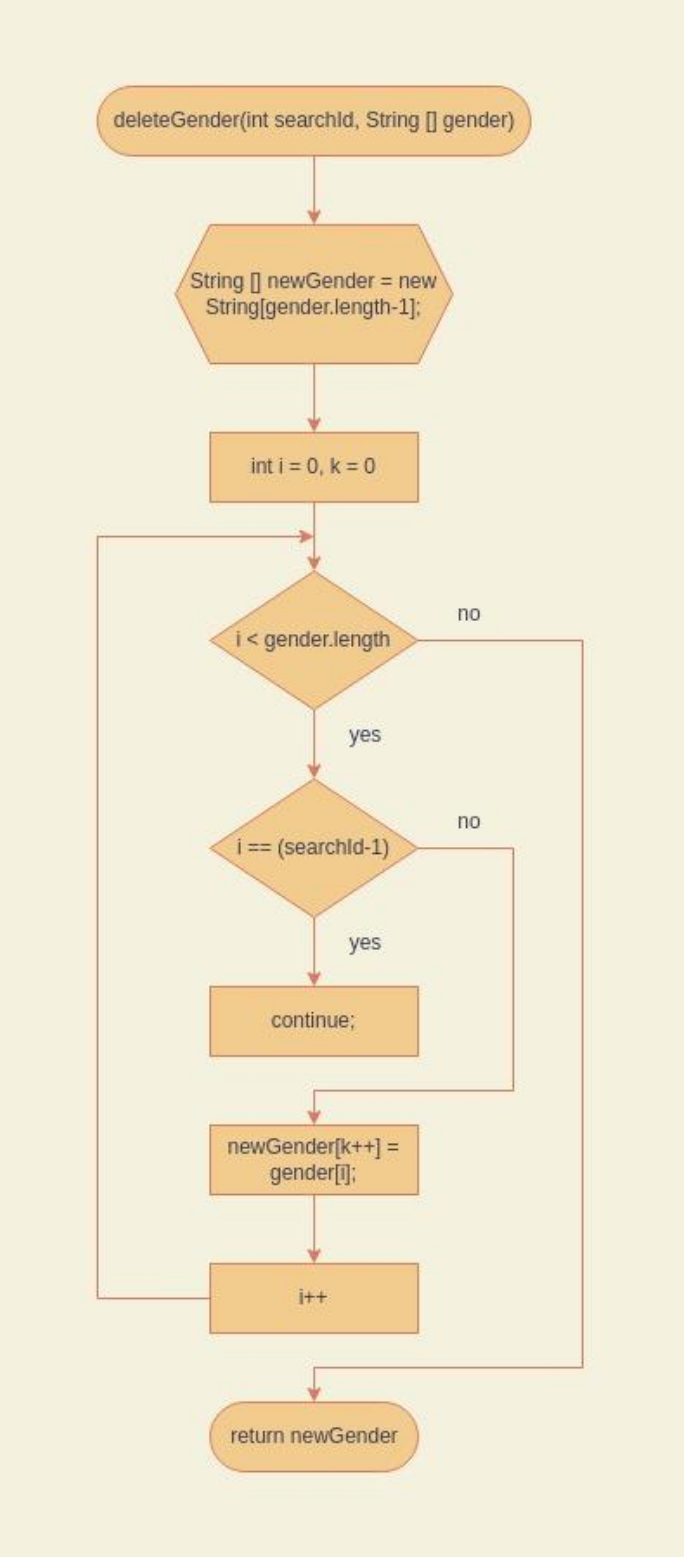
- **Function updateEmployee**



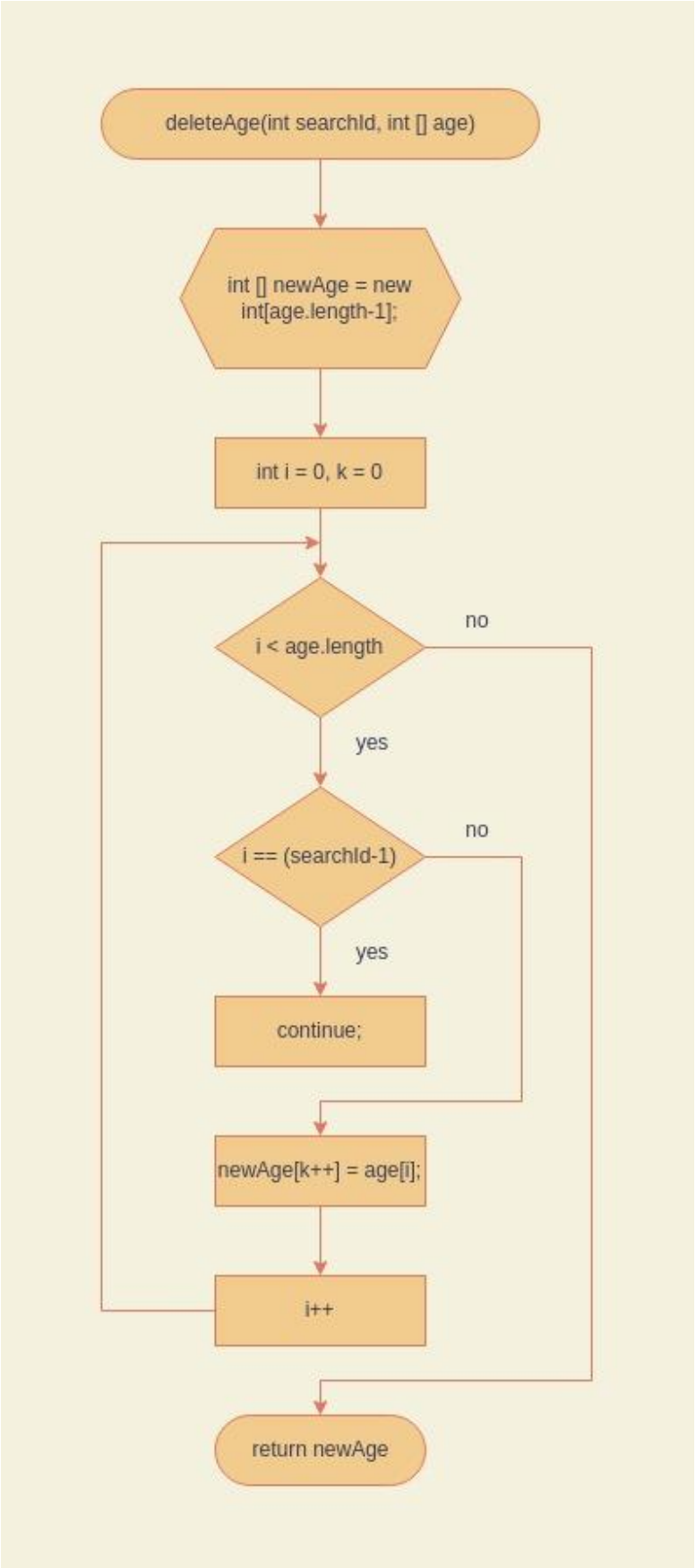
- **Function deleteName**


deleteName(int searchId, String [] name)
String [] newName = new String[name.length-1];
int i = 0, k = 0
i < name.length
no
yes
i == (searchId-1)
no
yes
continue;
newName[k++] = name[i];
i++
return newName

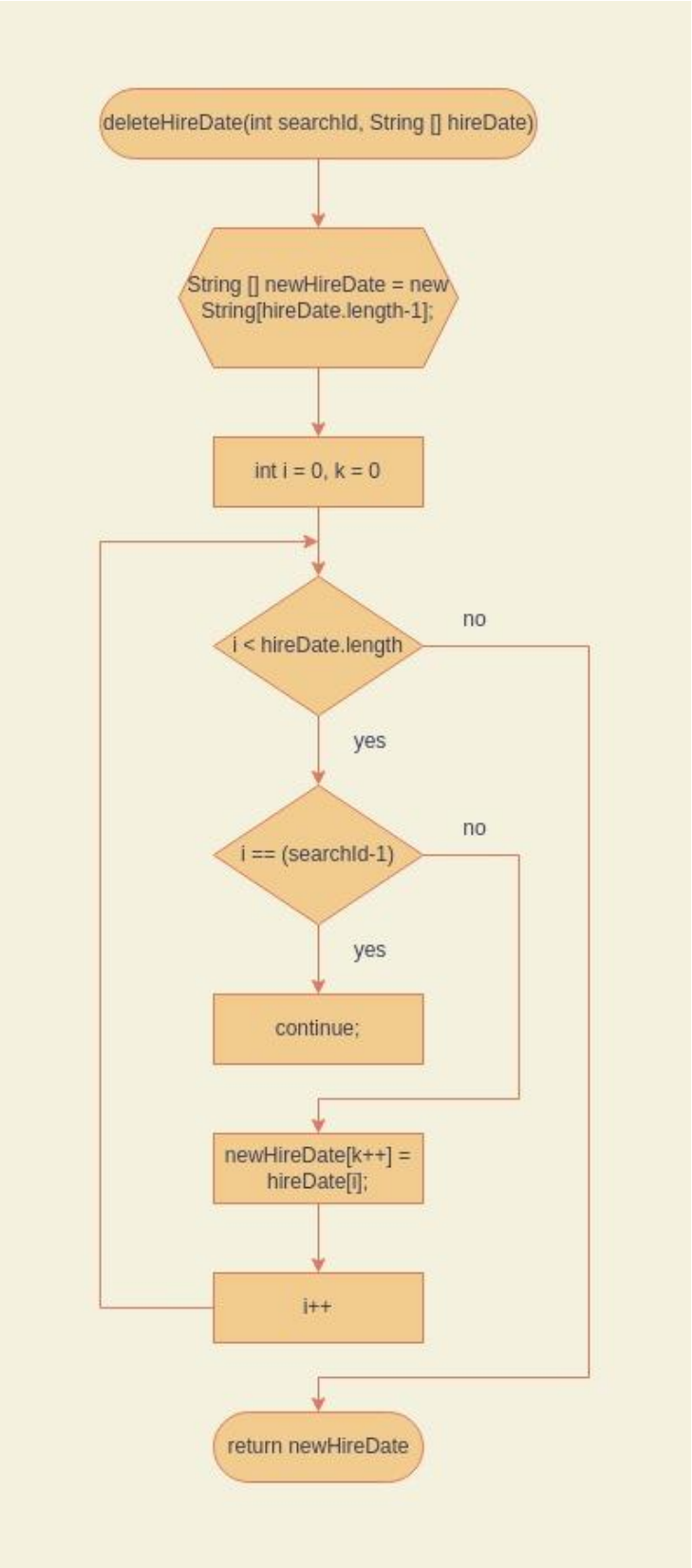
- **Function deleteGender**



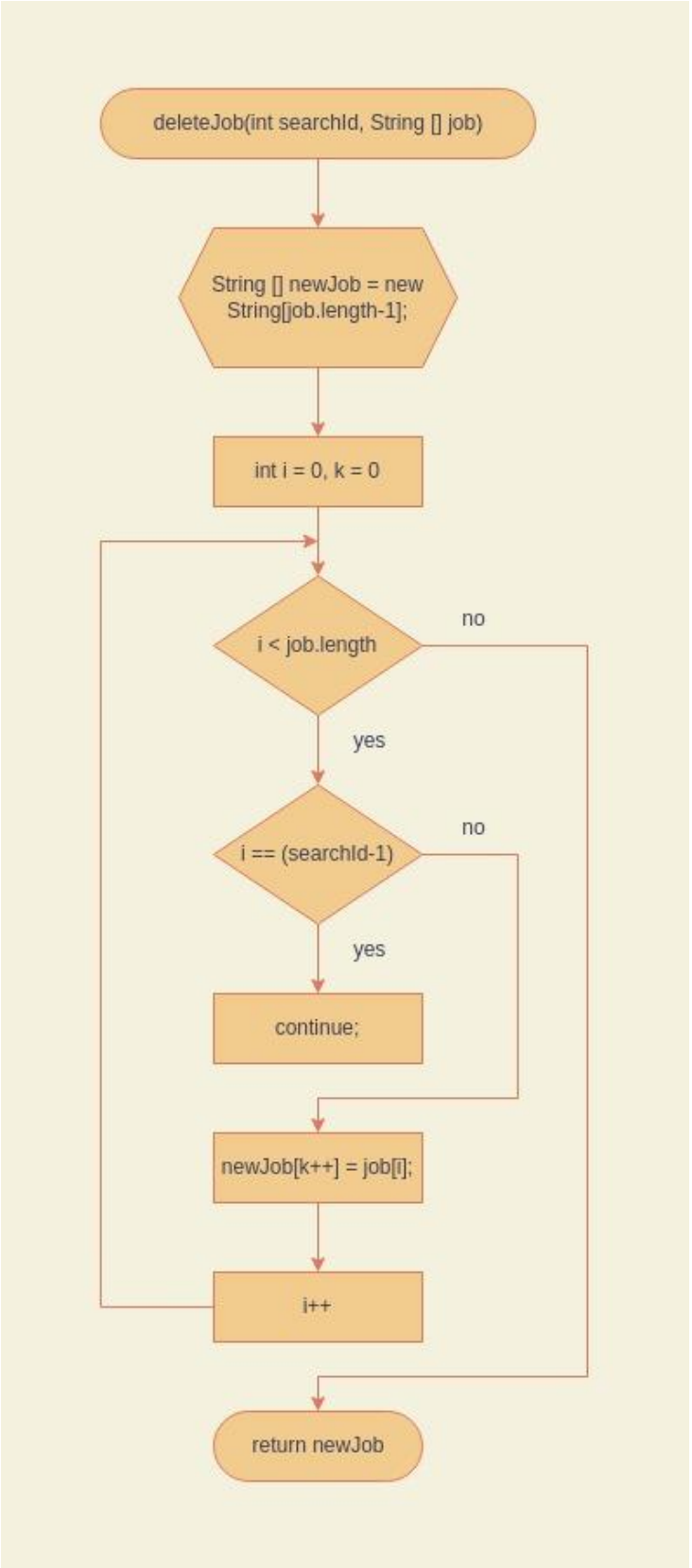
- **Function deleteAge**



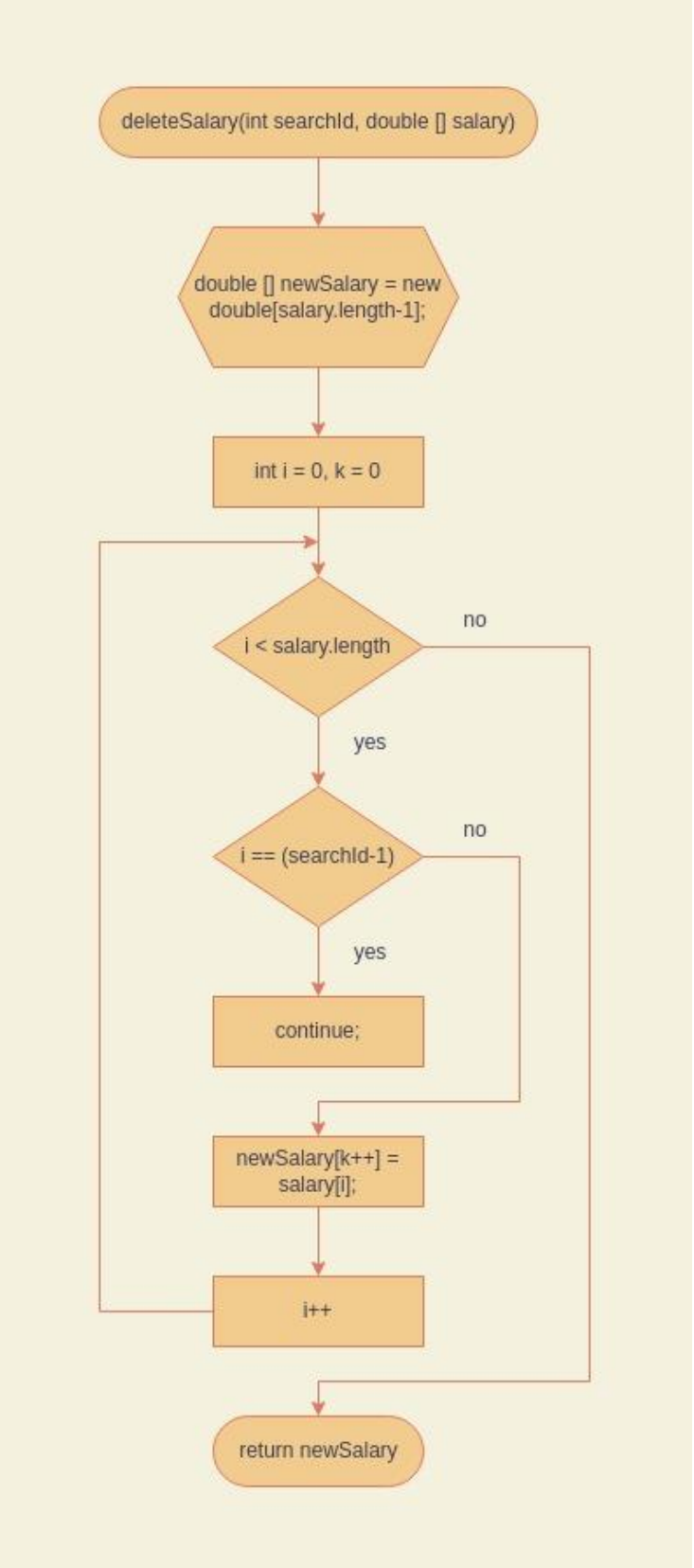
- **Function deleteHireDate**



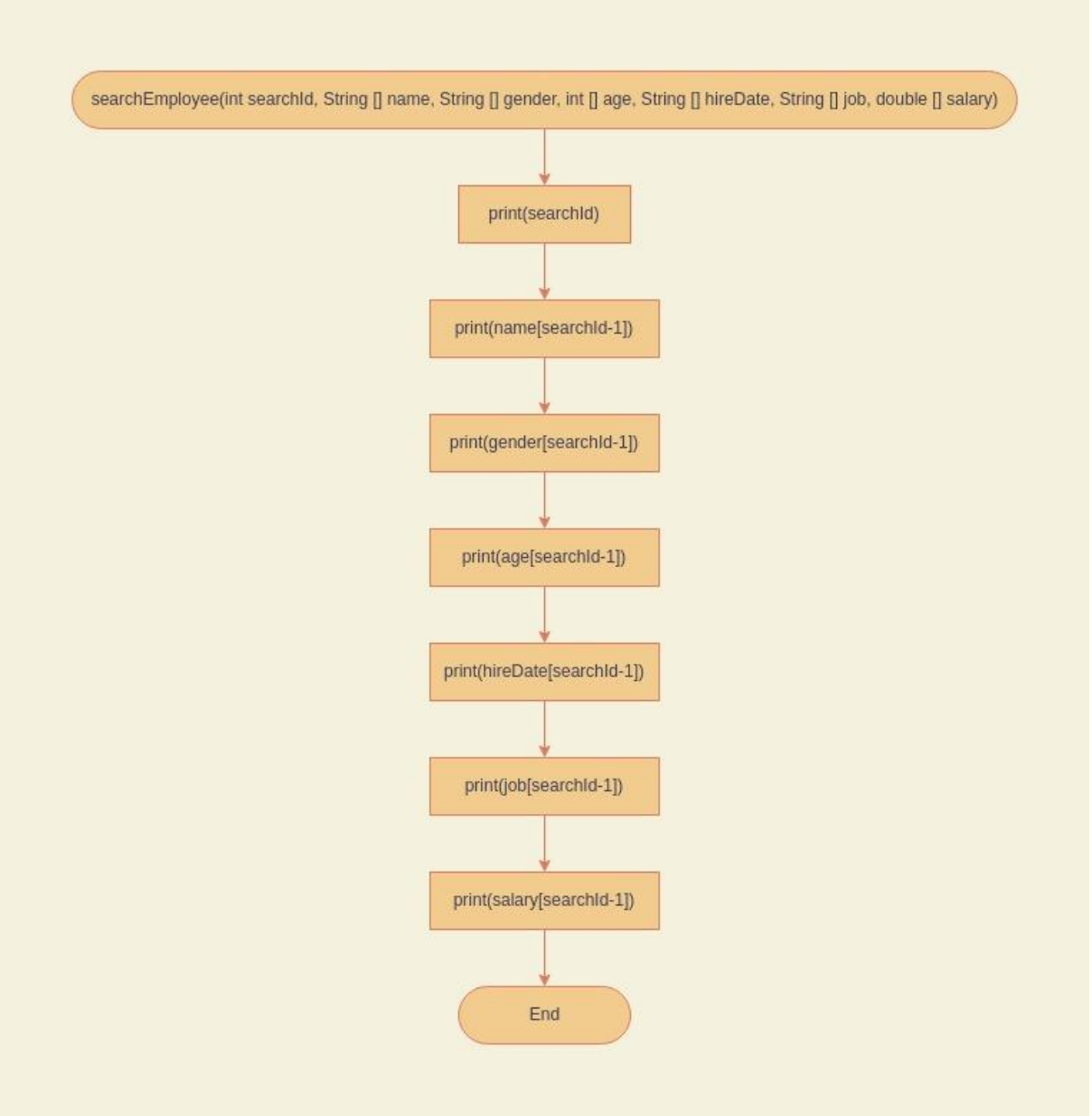
Function deleteJob



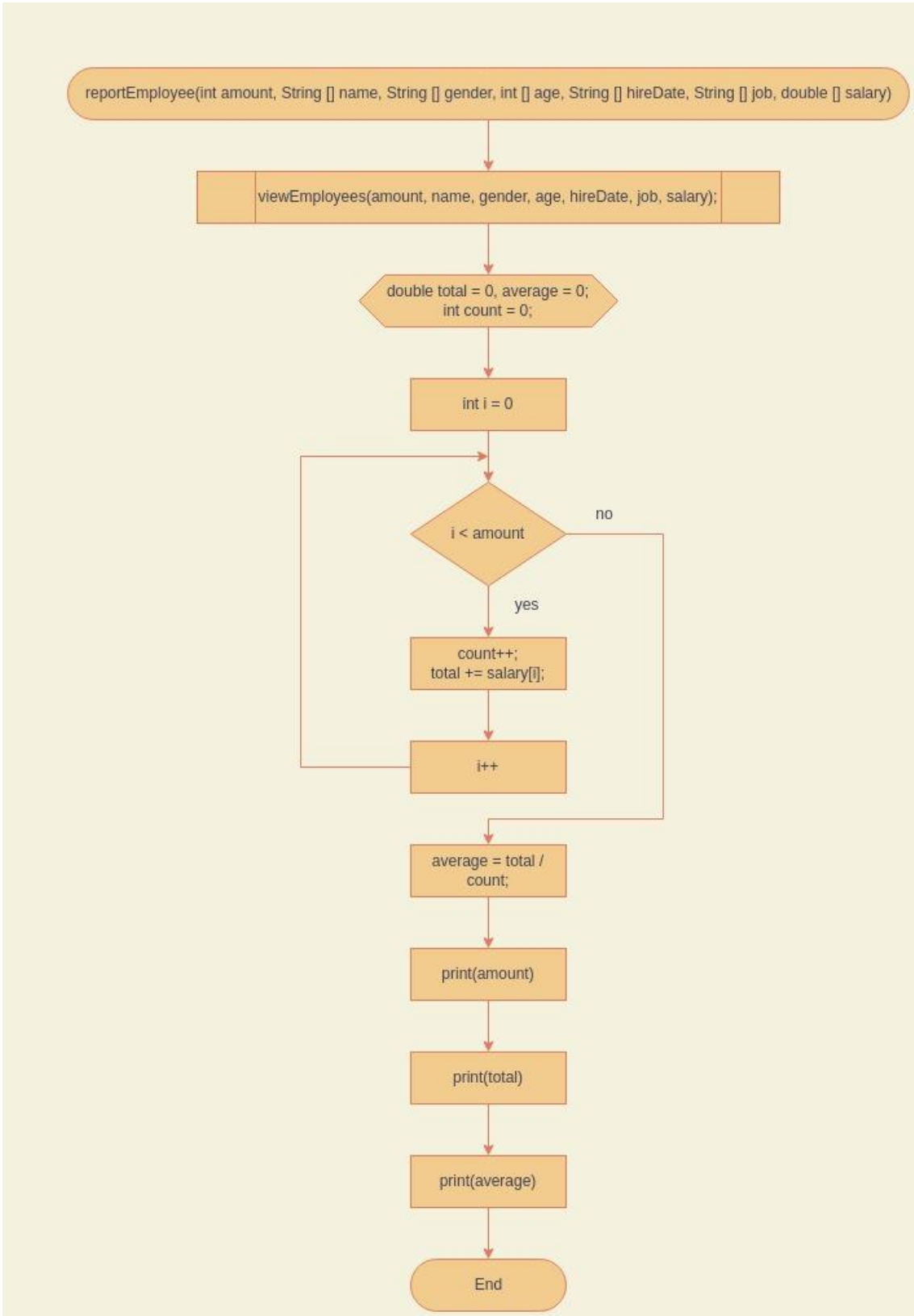
Function deleteSalary



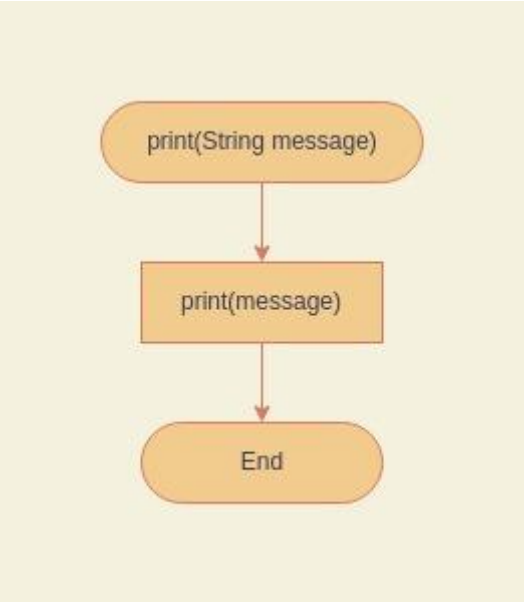
Function searchEmployee



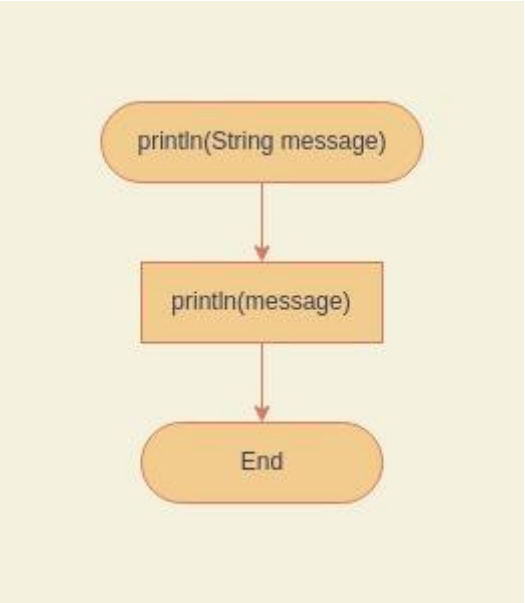
Function reportEmployee


reportEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary)
viewEmployees(amount, name, gender, age, hireDate, job, salary);
double total = 0, average = 0;
int count = 0;
int i = 0
i < amount
no
yes
count++;
total += salary[i];
i++
average = total / count;
print(amount)
print(total)
print(average)
End

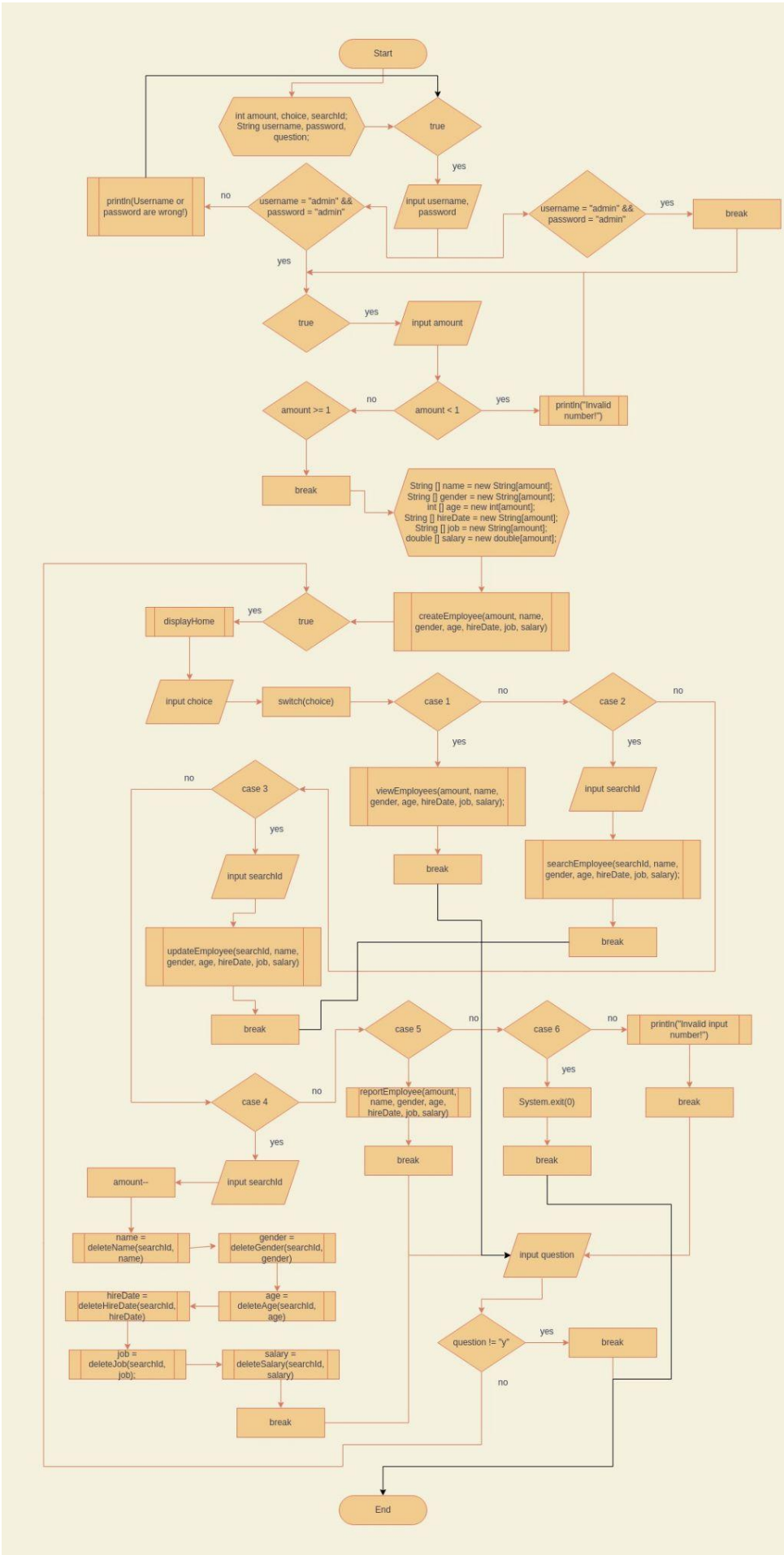
Function print



Function println



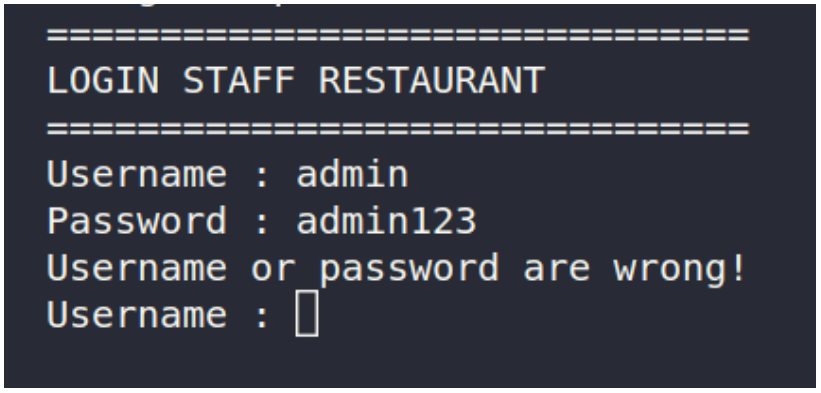
Function main


Start
int amount, choice, searchId;
String username, password, question;
true
yes
input username, password
username = "admin" && password = "admin"
no
println(Username or password are wrong!)
username = "admin" && password = "admin"
yes
break
yes
true
yes
input amount
amount >= 1
no
amount < 1
yes
println("Invalid number!")
break
String [] name = new String[amount];
String [] gender = new String[amount];
int [] age = new int[amount];
String [] hireDate = new String[amount];
String [] job = new String[amount];
double [] salary = new double[amount];
createEmployee(amount, name, gender, age, hireDate, job, salary)
true
yes
displayHome
input choice
switch(choice)
case 1
no
case 2
no
yes
yes
viewEmployees(amount, name, gender, age, hireDate, job, salary);
break
input searchId
searchEmployee(searchId, name, gender, age, hireDate, job, salary);
break
case 3
no
yes
input searchId
updateEmployee(searchId, name, gender, age, hireDate, job, salary)
break
case 5
no
case 6
no
println("Invalid input number!")
reportEmployee(amount, name, gender, age, hireDate, job, salary)
break
yes
System.exit(0)
break
case 4
no
yes
input searchId
amount--
name = deleteName(searchId, name)
gender = deleteGender(searchId, gender)
hireDate = deleteHireDate(searchId, hireDate)
age = deleteAge(searchId, age)
job = deleteJob(searchId, job);
salary = deleteSalary(searchId, salary)
break
input question
question != "y"
yes
break
no
End

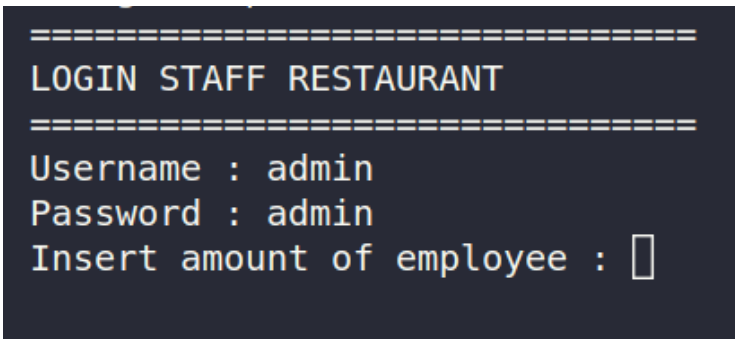
1.2 Steps to Run the Program

- First, log in by inputting a username with admin and a password with admin too.

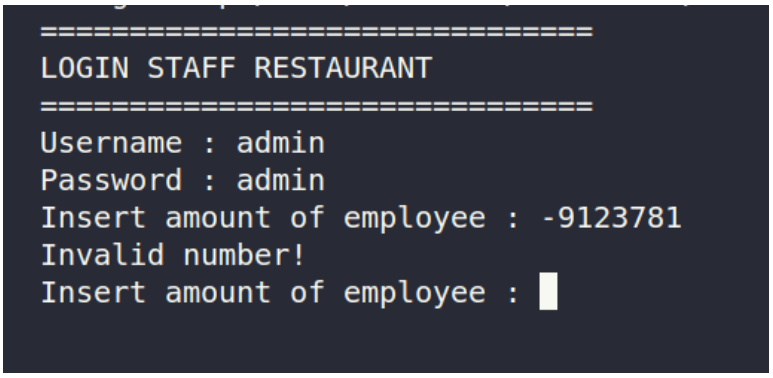
- If the user inputs the wrong username and password, there will be a username or password error message and the user must input again.



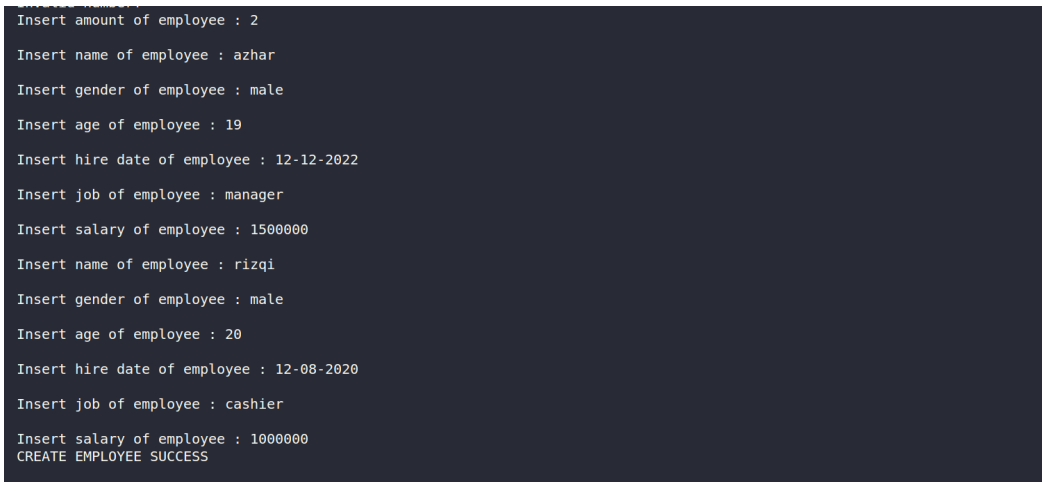
- After login, the user must input the amount of employees that the user wants.



- If a user inputs a number less than one, then an error message will appear and the user must input again.



- After the user input the amount of employees, the user must input the data of employees.



- The home menu appears. There are 6 menus: view employee, search employee, update employee and delete employee dan exit.

```
================================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
================================
Choice number 1 - 6 :
```

- If the user input numbers other than 1 - 6, then an error message will appear. And there is question input again or no.

```
================================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
================================
Choice number 1 - 6 : 0
Invalid input number!
Input again (y/n) ?
```

- If the user input 1, then the program will display data of all employees that the user created before.

```
================================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
================================
Choice number 1 - 6 : 1
================================
DATA EMPLOYEE
================================

=================================================================================================================================
|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |
=================================================================================================================================
|     1           azhar                  male            19           12-12-2022        manager       1,500,000.00     |
|     2           rizqi                  male            20           12-08-2020        cashier       1,000,000.00     |
=================================================================================================================================
Input again (y/n) ?
```

- After that, if the user input number 2, then the user must input the id of the employee as identification.

```
==============================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
==============================
Choice number 1 - 6 : 2
==============================
SEARCH EMPLOYEE
==============================
Insert id of employee : 1

=================================================================================================================
|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |
=================================================================================================================
|     1            azhar                   male            19            12-12-2022        manager       1,500,000.00     |
=================================================================================================================
Input again (y/n) ?
```

- At the update menu, the user can update the data of employees by inputting employee ID as identification.

```
==============================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
==============================
Choice number 1 - 6 : 3
==============================
UPDATE EMPLOYEE
==============================
Insert id of employee : 1
Id = 1

Update name of employee : sigil

Update gender of employee : male

Update age of employee : 25

Update hire date of employee : 08-08-2018

Update job of employee : cashier

Update salary of employee : 2500000
UPDATE EMPLOYEE SUCCESS

Input again (y/n) ?
```

- After edit.

```
==============================
DATA EMPLOYEE
==============================

=================================================================================================================
|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |
=================================================================================================================
|     1            sigil                   male            25            08-08-2018        cashier       2,500,000.00     |
|     2            rizqi                   male            20            12-08-2020        cashier       1,000,000.00     |
=================================================================================================================
Input again (y/n) ?
```

- At menu delete, the user can delete the data of an employee by inputting the id employee as identification.

```
================================
HOME
1. View employee
2. Search employee
3. Update employee
4. Delete employee
5. Report employee
6. Exit
================================
Choice number 1 - 6 : 4
================================
DELETE EMPLOYEE
================================
Insert id of employee : 1
DELETE EMPLOYE SUCCESS

Input again (y/n) ?
```

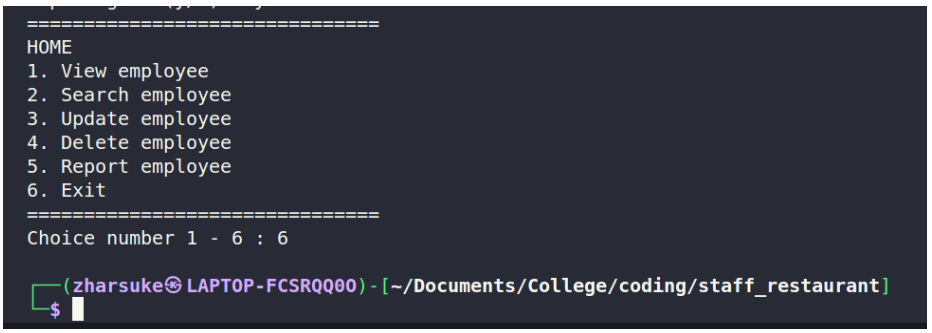
- Data employee after deletion.

```
==============================
DATA EMPLOYEE
==============================

=================================================================================================================
|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |
=================================================================================================================
|     1          rizqi                   male             20            12-08-2020        cashier       1,000,000.00     |
=================================================================================================================
Input again (y/n) ?
```

- At the report menu, the user can see data on employees, the total amount of employees, the total salary of employees, and the average salary of employees.
- After inputting data of the employee again.

```
==============================
REPORT EMPLOYEE
==============================

=================================================================================================================
|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |
=================================================================================================================
|     1          azhar                   male             19            12-12-2022        manager       1,500,000.00     |
|     2          rizqi                   male             20            12-12-2021        cashier       1,000,000.00     |
|     3          rifai                   male             22            12-12-2020        manager       1,500,000.00     |
|     4          sigil                   male             25            12-12-2017        cashier       1,000,000.00     |
=================================================================================================================

=============================================================================================
|     Total Employee     |     Total Salary of Employee     |     Average Salary of Employee     |
=============================================================================================
|     4                       5,000,000.00                       1,250,000.00                  |
=============================================================================================
Input again (y/n) ?
```

- And the last menu is an exit. If the user input 6, then the program will stop.



The following are the steps for running the application

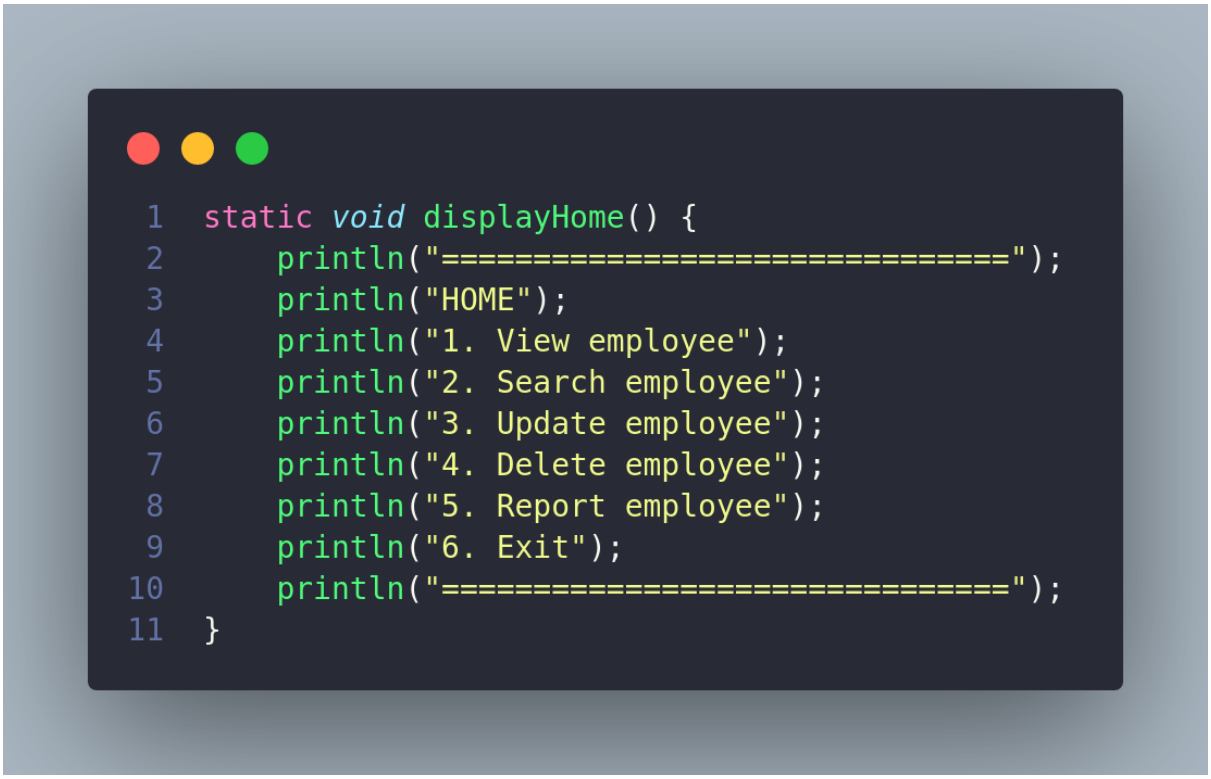
1. This application has several features such as creating employee data, viewing employee data, searching employee data, changing employee data, deleting employee data, and viewing employee data reports.

2. Before accessing the application, users are required to log in first. After logging in, the user inputs the number of employees they want to add and then fills in the employee data.

3. After filling in the employee data, the user can access several menus such as viewing all employee data that has been created by inputting the number 1, then searching for employee data by inputting the number 2, updating employee data by inputting number 3, delete employee data by inputting number 4, view employee reports by inputting number 5, and exit the program by inputting number 6.

1.3 Program Code

- **Function displayHome**



```
static void displayHome() {
    println("================================");
    println("HOME");
    println("1. View employee");
    println("2. Search employee");
    println("3. Update employee");
    println("4. Delete employee");
    println("5. Report employee");
    println("6. Exit");
    println("================================");
}
```

Function viewEmployee

```
static void viewEmployees(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

        println("\n=============================================================================================================================");
        println("|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |");
        println("=============================================================================================================================");

            for (int j = 0; j < amount; j++) {

                System.out.print("|     " + (j+1));
                System.out.print("            " + name[j]);
                System.out.print("                  " + gender[j]);
                System.out.print("             " + age[j]);
                System.out.print("            " + hireDate[j]);
                System.out.print("        " + job[j]);
                System.out.printf("       %,.2f     |",  salary[j]);
                System.out.println();

            }
        println("=============================================================================================================================");

}
```

Function createEmployee

```
static void createEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

    for (int i = 0; i < amount; i++) {
        print("\nInsert name of employee : ");
        name[i] = scanner.next();
        print("\nInsert gender of employee : ");
        gender[i] = scanner.next();
        print("\nInsert age of employee : ");
        age[i] = scanner.nextInt();
        print("\nInsert hire date of employee : ");
        hireDate[i] = scanner.next();
        print("\nInsert job of employee : ");
        job[i] = scanner.next();
        print("\nInsert salary of employee : ");
        salary[i] = scanner.nextDouble();
    }

    println("CREATE EMPLOYEE SUCCESS\n");
}
```

function updateEmployee

```
static void updateEmployee(int searchId, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

    String updateName, updateGender, updateHireDate, updateJob;
    int updateAge;
    double updateSalary;

    System.out.println("Id = " + searchId);
    print("\nUpdate name of employee : ");
    updateName = scanner.next();
    name[searchId-1] = updateName;
    print("\nUpdate gender of employee : ");
    updateGender = scanner.next();
    gender[searchId-1] = updateGender;
    print("\nUpdate age of employee : ");
    updateAge = scanner.nextInt();
    age[searchId-1] = updateAge;
    print("\nUpdate hire date of employee : ");
    updateHireDate = scanner.next();
    hireDate[searchId-1] = updateHireDate;
    print("\nUpdate job of employee : ");
    updateJob = scanner.next();
    job[searchId-1] = updateJob;
    print("\nUpdate salary of employee : ");
    updateSalary = scanner.nextDouble();
    salary[searchId-1] = updateSalary;

    println("UPDATE EMPLOYEE SUCCESS\n");
}
```

function deleteName

```java
static String [] deleteName(int searchId, String [] name) {

    String [] newName = new String[name.length-1];

    for (int i = 0, k = 0; i < name.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
            newName[k++] = name[i];
        }
    }
    return newName;

}
```

function deleteGender

```java
static String [] deleteGender(int searchId, String[] gender) {

    String [] newGender = new String[gender.length-1];

    for (int i = 0, k = 0; i < gender.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
            newGender[k++] = gender[i];
        }
    }
    return newGender;

}
```

function deleteAge

```
static int [] deleteAge(int searchId, int [] age) {

    int [] newAge = new int[age.length-1];

    for (int i = 0, k = 0; i < age.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newAge[k++] = age[i];
        }
    }
    return newAge;

}
```

function deleteHireDate

```java
static String [] deleteHireDate(int searchId, String [] hireDate) {

    String [] newHireDate = new String[hireDate.length-1];

    for (int i = 0, k = 0; i < hireDate.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newHireDate[k++] = hireDate[i];
        }
    }
    return newHireDate;

}
```

Function deleteJob

```java
static String [] deleteJob(int searchId, String [] job) {

    String [] newJob = new String[job.length-1];

    for (int i = 0, k = 0; i < job.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newJob[k++] = job[i];
        }
    }
    return newJob;

}
```

Function deleteSalary

```java
static double [] deleteSalary(int searchId, double[] salary) {

    double [] newSalary = new double[salary.length-1];

    for (int i = 0, k = 0; i < salary.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newSalary[k++] = salary[i];
        }
    }
    return newSalary;

}
```

Function searchEmployee

```java
static void searchEmployee(int searchId, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

        println("\n=============================================================================================================");
        println("|     Id     |     Name Employee     |     Gender     |     age     |     Hire Date     |     Job     |       Salary       |");
        println("=============================================================================================================");

        System.out.print("|     " + searchId);
        System.out.print("            " + name[searchId-1]);
        System.out.print("                " + gender[searchId-1]);
        System.out.print("             " + age[searchId-1]);
        System.out.print("            " + hireDate[searchId-1]);
        System.out.print("        " + job[searchId-1]);
        System.out.printf("       %,.2f     |",  salary[searchId-1]);
        System.out.println();

        println("=============================================================================================================");

}
```

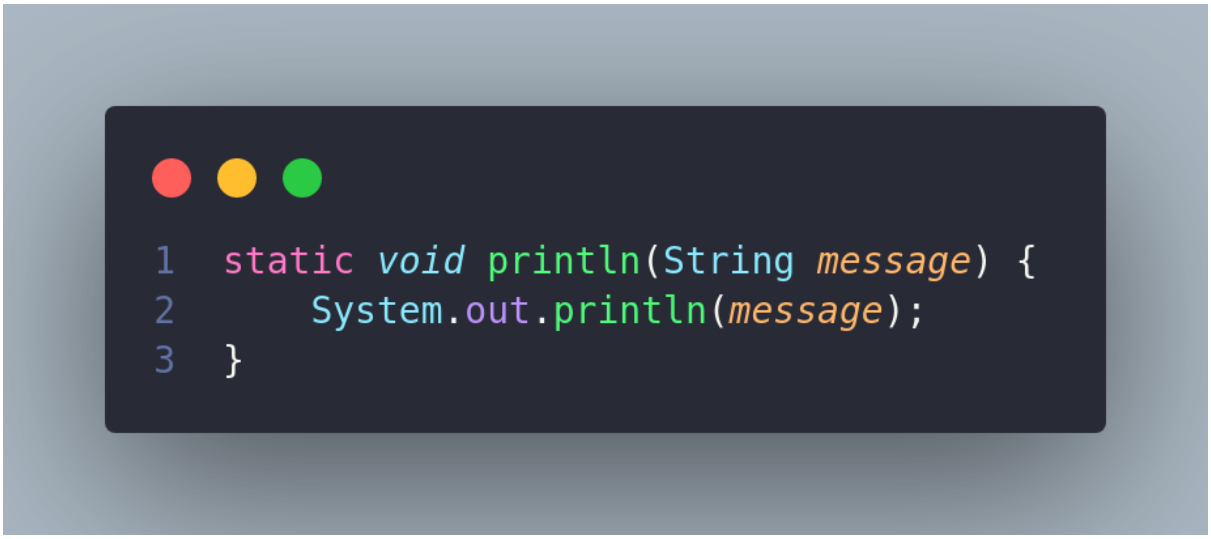
Function reportEmployee

```java
static void reportEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

    viewEmployees(amount, name, gender, age, hireDate, job, salary);
    System.out.println();

    double total = 0, average = 0;
    int count = 0;

    for (int i = 0; i < amount; i++) {
        count++;
        total += salary[i];
    }

    average = total / count;

    println("=============================================================================================");
    println("|     Total Employee     |     Total Salary of Employee     |     Average Salary of Employee     |");
    println("=============================================================================================");
    System.out.printf("|     %,d", amount);
    System.out.printf("                       %,.2f", total);
    System.out.printf("                      %,.2f                  |\n", average);
    println("=============================================================================================");

}
```

Function print

```java
static void print(String message) {
    System.out.print(message);
}
```

function println



```
1  static void println(String message) {
2      System.out.println(message);
3  }
```

Function main

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

    int amount, choice, searchId;
    String username, password, question;
    println("==============================");
    println("LOGIN STAFF RESTAURANT");
    println("==============================");
    while (true) {

        print("Username : ");
        username = scanner.next();
        print("Password : ");
        password = scanner.next();

        if (username.equals("admin") && password.equals("admin")) {

            while (true) {

                print("Insert amount of employee : ");
                amount = scanner.nextInt();

                if (amount < 1) {
                    println("Invalid number!");
                } else if (amount >= 1) {
                    break;
                }
            }

            String [] name = new String[amount];
            String [] gender = new String[amount];
            int [] age = new int[amount];
            String [] hireDate = new String[amount];
            String [] job = new String[amount];
            double [] salary = new double[amount];
            createEmployee(amount, name, gender, age, hireDate, job, salary);

            while (true) {

                displayHome();
                print("Choice number 1 - 6 : ");
                choice = scanner.nextInt();

                switch (choice) {
                    case 1:
                        println("==============================");
                        println("DATA EMPLOYEE");
                        println("==============================");
                        viewEmployees(amount, name, gender, age, hireDate, job, salary);
                        break;
                    case 2:
                        println("==============================");
                        println("SEARCH EMPLOYEE");
                        println("==============================");
                        print("Insert id of employee : ");
                        searchId = scanner.nextInt();
                        searchEmployee(searchId, name, gender, age, hireDate, job, salary);
                        break;
                    case 3:
                        println("==============================");
                        println("UPDATE EMPLOYEE");
                        println("==============================");
                        print("Insert id of employee : ");
                        searchId = scanner.nextInt();
                        updateEmployee(searchId, name, gender, age, hireDate, job, salary);
                        break;
                    case 4:
                        println("==============================");
                        println("DELETE EMPLOYEE");
                        println("==============================");
                        print("Insert id of employee : ");
                        searchId = scanner.nextInt();
                        amount--;
                        name = deleteName(searchId, name);
                        gender = deleteGender(searchId, gender);
                        age = deleteAge(searchId, age);
                        hireDate = deleteHireDate(searchId, hireDate);
                        job = deleteJob(searchId, job);
                        salary = deleteSalary(searchId, salary);

                        println("DELETE EMPLOYE SUCCESS\n");

                        break;
                    case 5:
                        println("==============================");
                        println("REPORT EMPLOYEE");
                        println("==============================");
                        reportEmployee(amount, name, gender, age, hireDate, job, salary);
                        break;
                    case 6:
                        System.exit(0);
                        break;
                    default:
                        println("Invalid input number!");
                        break;
                }
                print("Input again (y/n) ? ");
                question = scanner.next();

                if (!question.equalsIgnoreCase("y")) {
                    break;
                }
            }

            } else {
                println("Username or password are wrong!");
            }

        if (username.equals("admin") && password.equals("admin")) {
            break;
        }

    }

}
```

```
package org.example;

import java.util.Scanner;

public class Main {

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

    static void displayHome() {

        println("================================");

        println("HOME");

        println("1. View employee");

        println("2. Search employee");

        println("3. Update employee");

        println("4. Delete employee");

        println("5. Report employee");

        println("6. Exit");

        println("================================");

    }

    static void viewEmployees(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
println("\n================================================================================================================")
;

            println("|    Id    |    Name Employee    |    Gender    |    age    |    Hire Date    |    Job    |    Salary    |");
```

```
println("================================================================
================================================================");

            for (int j = 0; j < amount; j++) {

                System.out.print("|     " + (j+1));

                System.out.print("            " + name[j]);

                System.out.print("                  " + gender[j]);

                System.out.print("             " + age[j]);

                System.out.print("            " + hireDate[j]);

                System.out.print("        " + job[j]);

                System.out.printf("       %,.2f     |",  salary[j]);

                System.out.println();

            }


println("================================================================
================================================================");

    }

    static void createEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {

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

            print("\nInsert name of employee : ");

            name[i] = scanner.next();

            print("\nInsert gender of employee : ");
```

```
            gender[i] = scanner.next();
            print("\nInsert age of employee : ");
            age[i] = scanner.nextInt();
            print("\nInsert hire date of employee : ");
            hireDate[i] = scanner.next();
            print("\nInsert job of employee : ");
            job[i] = scanner.next();
            print("\nInsert salary of employee : ");
            salary[i] = scanner.nextDouble();
        }
        println("CREATE EMPLOYEE SUCCESS\n");
    }
    static void updateEmployee(int searchId, String [] name, String [] gender, int [] age, String
[] hireDate, String [] job, double [] salary) {
        String updateName, updateGender, updateHireDate, updateJob;
        int updateAge;
        double updateSalary;
        System.out.println("Id = " + searchId);
        print("\nUpdate name of employee : ");
        updateName = scanner.next();
        name[searchId-1] = updateName;
```

```
    print("\nUpdate gender of employee : ");
    updateGender = scanner.next();
    gender[searchId-1] = updateGender;
    print("\nUpdate age of employee : ");
    updateAge = scanner.nextInt();
    age[searchId-1] = updateAge;
    print("\nUpdate hire date of employee : ");
    updateHireDate = scanner.next();
    hireDate[searchId-1] = updateHireDate;
    print("\nUpdate job of employee : ");
    updateJob = scanner.next();
    job[searchId-1] = updateJob;
    print("\nUpdate salary of employee : ");
    updateSalary = scanner.nextDouble();
    salary[searchId-1] = updateSalary;
    println("UPDATE EMPLOYEE SUCCESS\n");
}
static String [] deleteName(int searchId, String [] name) {
    String [] newName = new String[name.length-1];
    for (int i = 0, k = 0; i < name.length; i++) {
```

```
        if (i == (searchId-1)) {
            continue;
        } else {
            newName[k++] = name[i];
        }
    }
    return newName;
}
static String [] deleteGender(int searchId, String[] gender) {
    String [] newGender = new String[gender.length-1];
    for (int i = 0, k = 0; i < gender.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
            newGender[k++] = gender[i];
        }
    }
    return newGender;
}
static int [] deleteAge(int searchId, int [] age) {
```

```
    int [] newAge = new int[age.length-1];
    for (int i = 0, k = 0; i < age.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newAge[k++] = age[i];
        }
    }
    return newAge;
}
static String [] deleteHireDate(int searchId, String [] hireDate) {
    String [] newHireDate = new String[hireDate.length-1];
    for (int i = 0, k = 0; i < hireDate.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newHireDate[k++] = hireDate[i];
        }
    }
    return newHireDate;
```

```
}
static String [] deleteJob(int searchId, String [] job) {
    String [] newJob = new String[job.length-1];
    for (int i = 0, k = 0; i < job.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newJob[k++] = job[i];
        }
    }
    return newJob;
}
static double [] deleteSalary(int searchId, double[] salary) {
    double [] newSalary = new double[salary.length-1];
    for (int i = 0, k = 0; i < salary.length; i++) {
        if (i == (searchId-1)) {
            continue;
        } else {
        newSalary[k++] = salary[i];
        }
```

```
        }
        return newSalary;
    }
    static void searchEmployee(int searchId, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
println("\n================================================================================");
;
            println("|    Id    |    Name Employee    |    Gender    |    age    |    Hire Date    |    Job    |    Salary    |");
println("================================================================================");
            System.out.print("|     " + searchId);
            System.out.print("           " + name[searchId-1]);
            System.out.print("                " + gender[searchId-1]);
            System.out.print("            " + age[searchId-1]);
            System.out.print("           " + hireDate[searchId-1]);
            System.out.print("       " + job[searchId-1]);
            System.out.printf("      %,.2f     |",  salary[searchId-1]);
            System.out.println();
println("================================================================================");
    }
```

```
    static void reportEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
        viewEmployees(amount, name, gender, age, hireDate, job, salary);
        System.out.println();
        double total = 0, average = 0;
        int count = 0;
        for (int i = 0; i < amount; i++) {
            count++;
            total += salary[i];
        }
        average = total / count;

println("=============================================================================================");
        println("|     Total Employee     |     Total Salary of Employee     |     Average Salary of Employee     |");
println("=============================================================================================");
        System.out.printf("|     %,d", amount);
        System.out.printf("                        %,.2f", total);
        System.out.printf("                        %,.2f                |\n", average);
println("=============================================================================================");
```

```
}
static void print(String message) {
    System.out.print(message);
}
static void println(String message) {
    System.out.println(message);
}
public static void main(String[] args) {
    int amount, choice, searchId;
    String username, password, question;
    println("================================");
    println("LOGIN STAFF RESTAURANT");
    println("================================");
    while (true) {
        print("Username : ");
        username = scanner.next();
        print("Password : ");
        password = scanner.next();
        if (username.equals("admin") && password.equals("admin")) {
            while (true) {
```

```
    print("Insert amount of employee : ");
    amount = scanner.nextInt();
    if (amount < 1) {
        println("Invalid number!");
    } else if (amount >= 1) {
        break;
    }
}
String [] name = new String[amount];
String [] gender = new String[amount];
int [] age = new int[amount];
String [] hireDate = new String[amount];
String [] job = new String[amount];
double [] salary = new double[amount];
createEmployee(amount, name, gender, age, hireDate, job, salary);
while (true) {
    displayHome();
    print("Choice number 1 - 6 : ");
    choice = scanner.nextInt();
    switch (choice) {
```

```
case 1:
    println("================================");
    println("DATA EMPLOYEE");
    println("================================");
    viewEmployees(amount, name, gender, age, hireDate, job, salary);
    break;
case 2:
    println("================================");
    println("SEARCH EMPLOYEE");
    println("================================");
    print("Insert id of employee : ");
    searchId = scanner.nextInt();
    searchEmployee(searchId, name, gender, age, hireDate, job, salary);
    break;
case 3:
    println("================================");
    println("UPDATE EMPLOYEE");
    println("================================");
    print("Insert id of employee : ");
    searchId = scanner.nextInt();
```

```
            updateEmployee(searchId, name, gender, age, hireDate, job, salary);
            break;
        case 4:
            println("================================");
            println("DELETE EMPLOYEE");
            println("================================");
            print("Insert id of employee : ");
            searchId = scanner.nextInt();
            amount--;
            name = deleteName(searchId, name);
            gender = deleteGender(searchId, gender);
            age = deleteAge(searchId, age);
            hireDate = deleteHireDate(searchId, hireDate);
            job = deleteJob(searchId, job);
            salary = deleteSalary(searchId, salary);
            println("DELETE EMPLOYE SUCCESS\n");
            break;
        case 5:
            println("================================");
            println("REPORT EMPLOYEE");
```

```
                println("================================");
                reportEmployee(amount, name, gender, age, hireDate, job, salary);
                break;
            case 6:
                System.exit(0);
                break;
            default:
                println("Invalid input number!");
                break;
        }
        print("Input again (y/n) ? ");
        question = scanner.next();
        if (!question.equalsIgnoreCase("y")) {
            break;
        }
    }
    } else {
        println("Username or password are wrong!");
    }
if (username.equals("admin") && password.equals("admin")) {
```

```
                break;

            }

        }

    }

}
```