

FINAL PROJECT REPORT

ABOUT

STAFF RESTAURANT

AL AZHAR RIZQI RIFA'I FIRDAUS

II

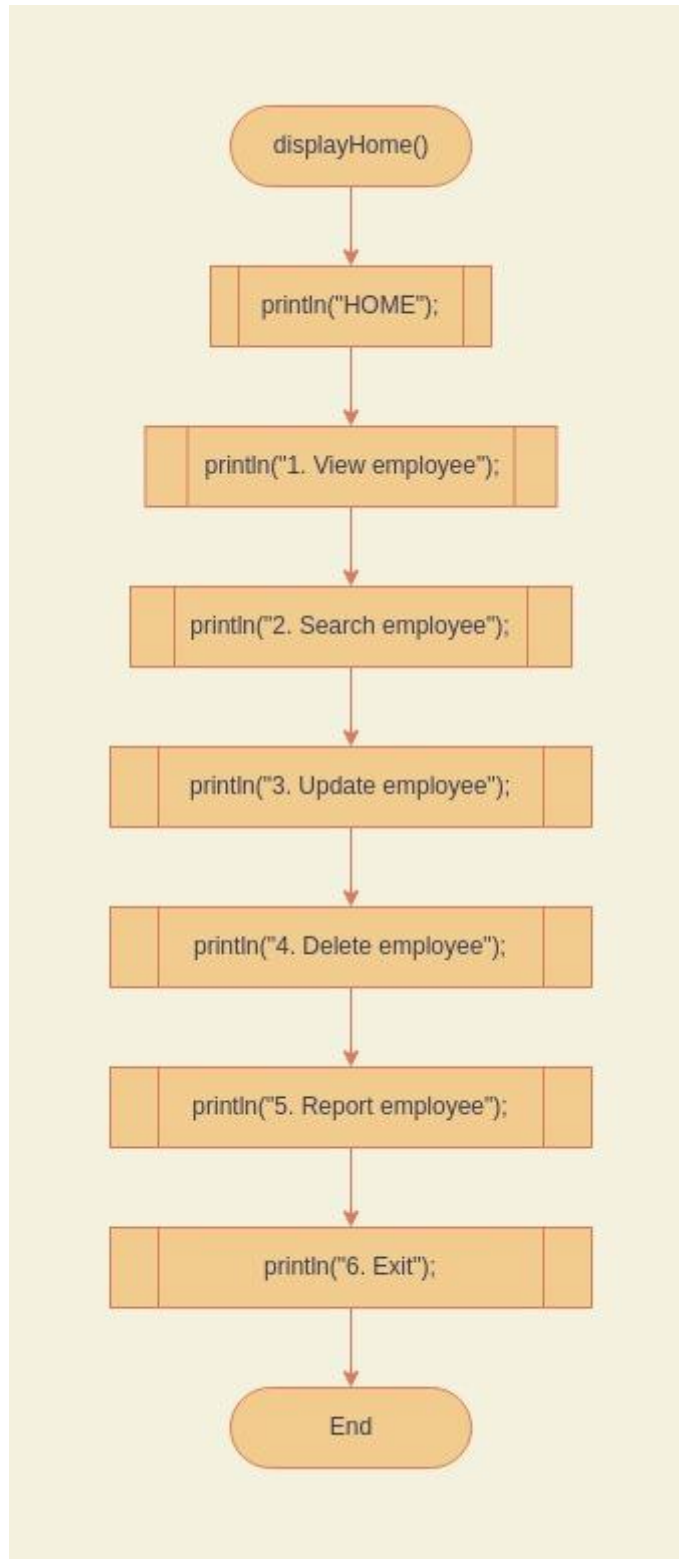


POLITEKNIK NEGERI MALANG

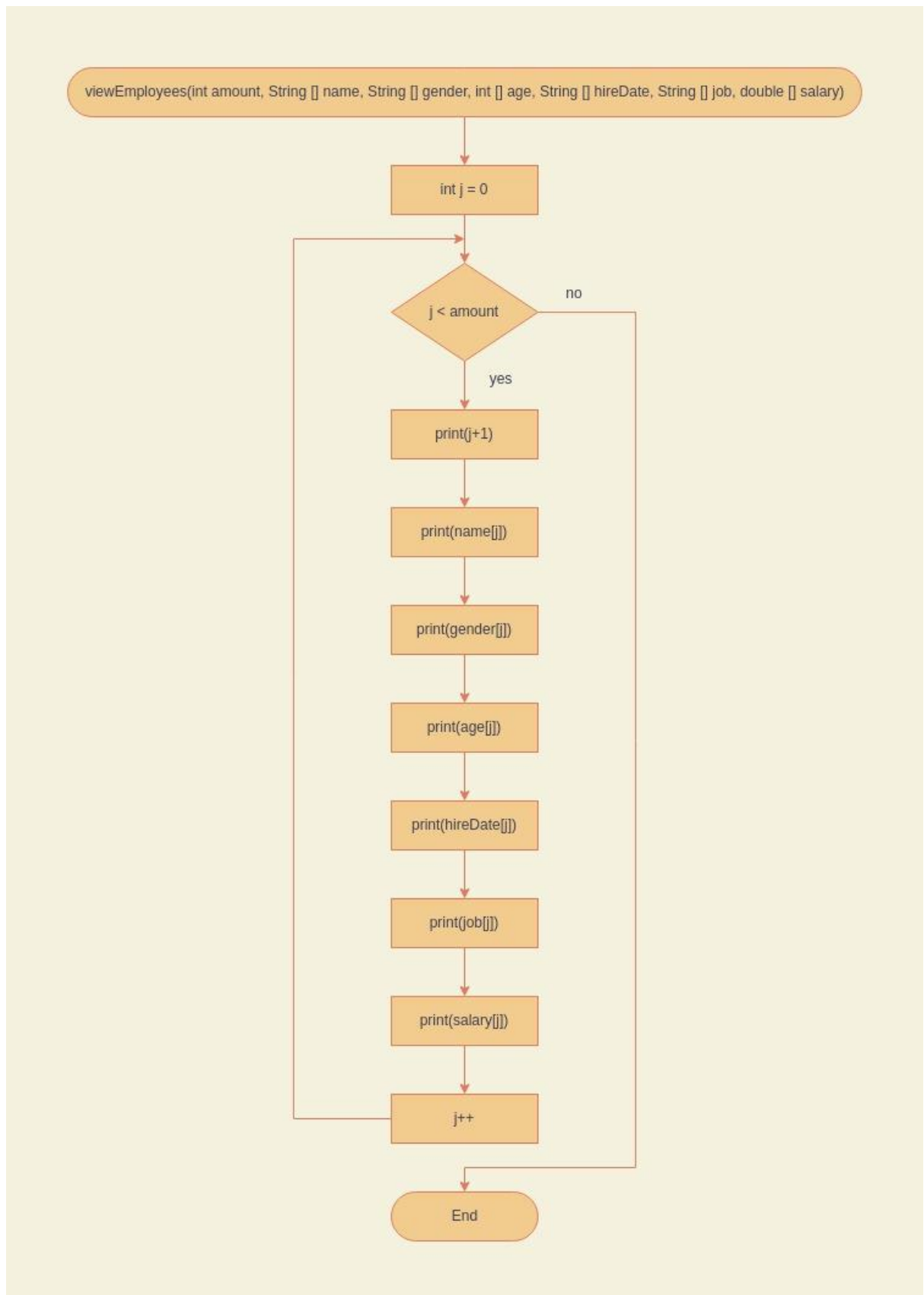
DECEMBER 2022

1.1 Flowchart

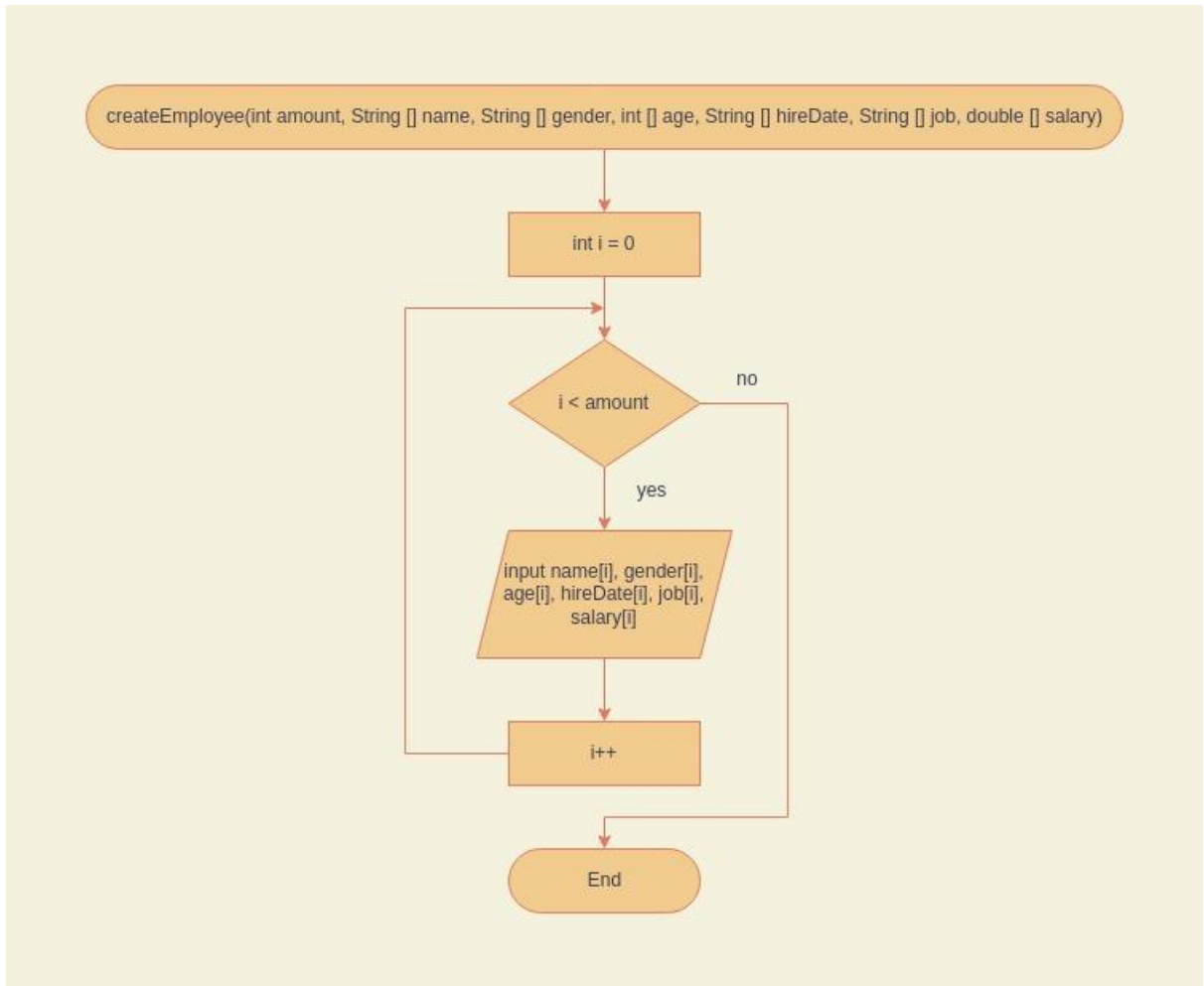
- Function displayHome



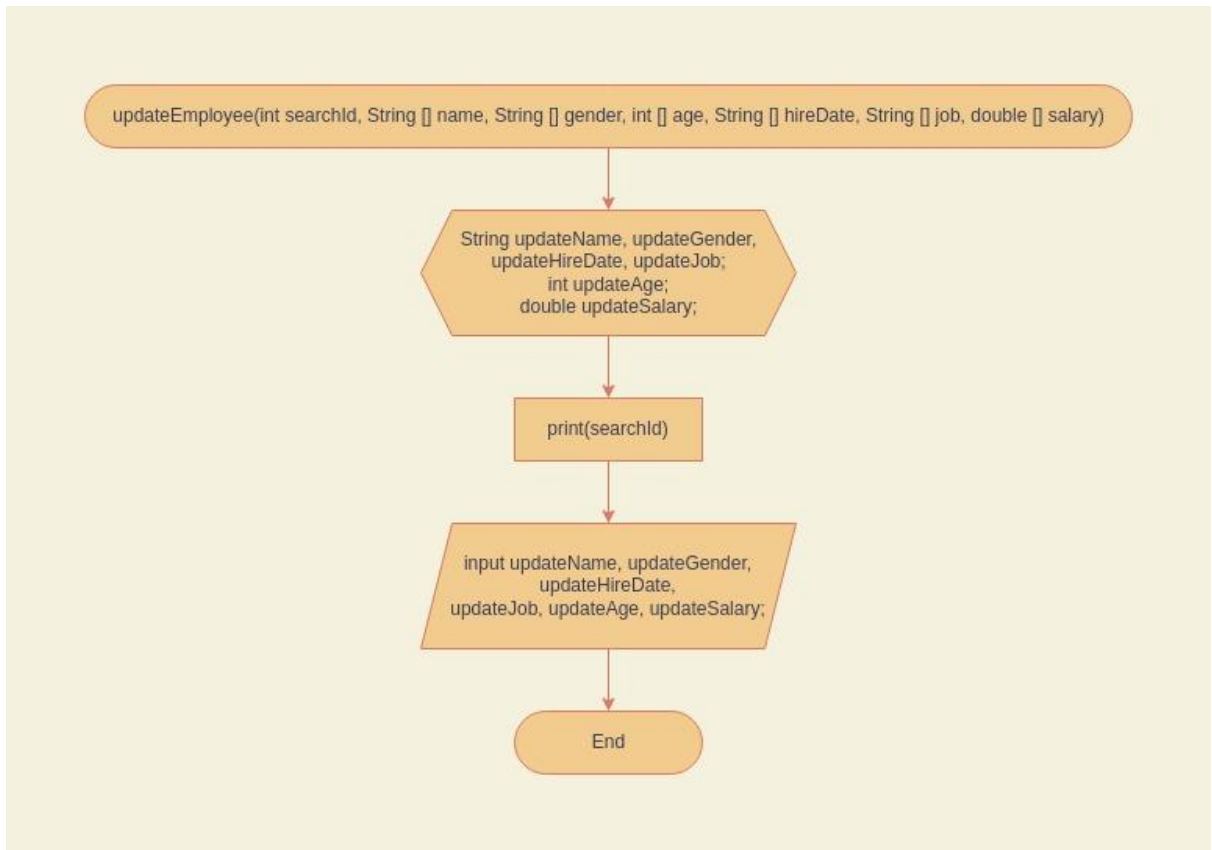
- Function viewEmployees



- **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

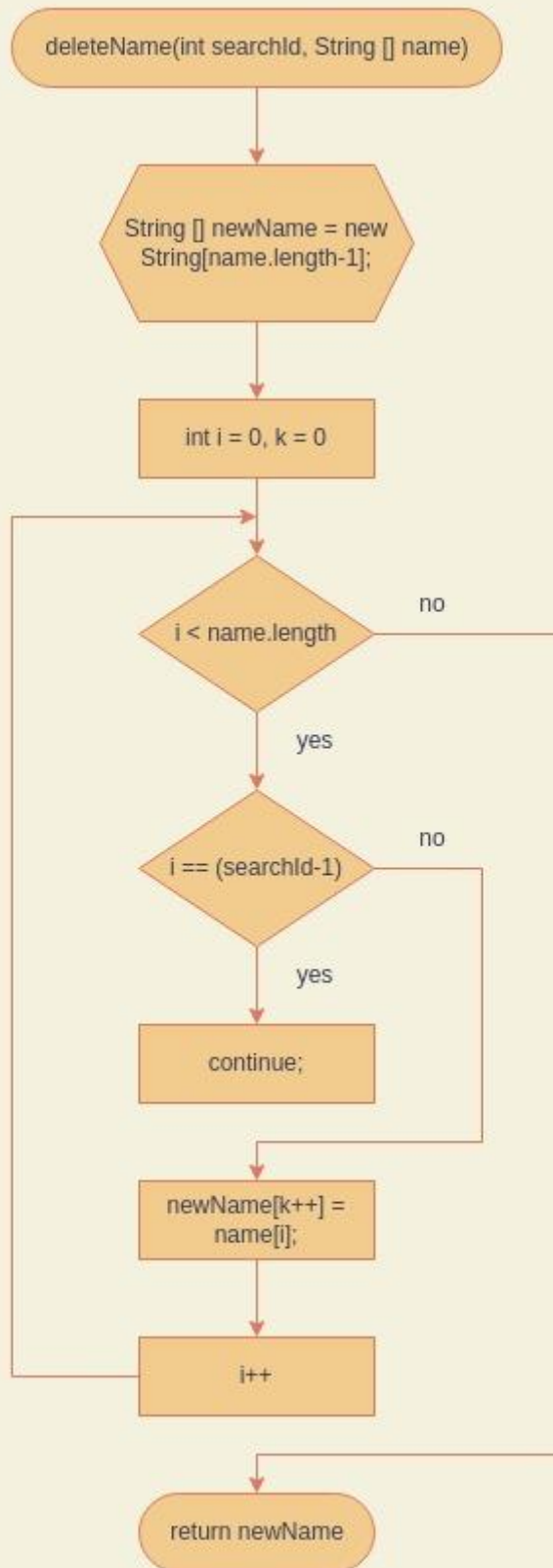
yes

continue;

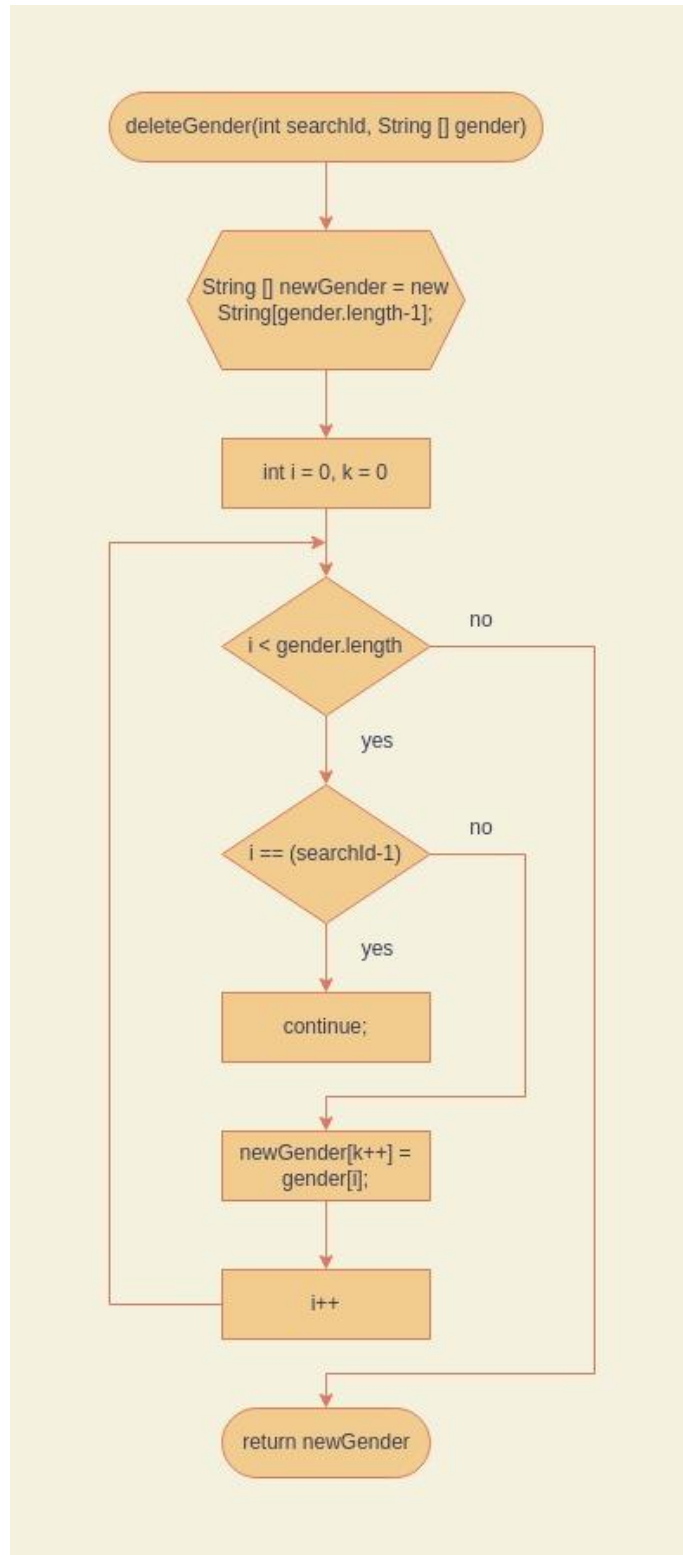
newName[k++] =
name[i];

i++

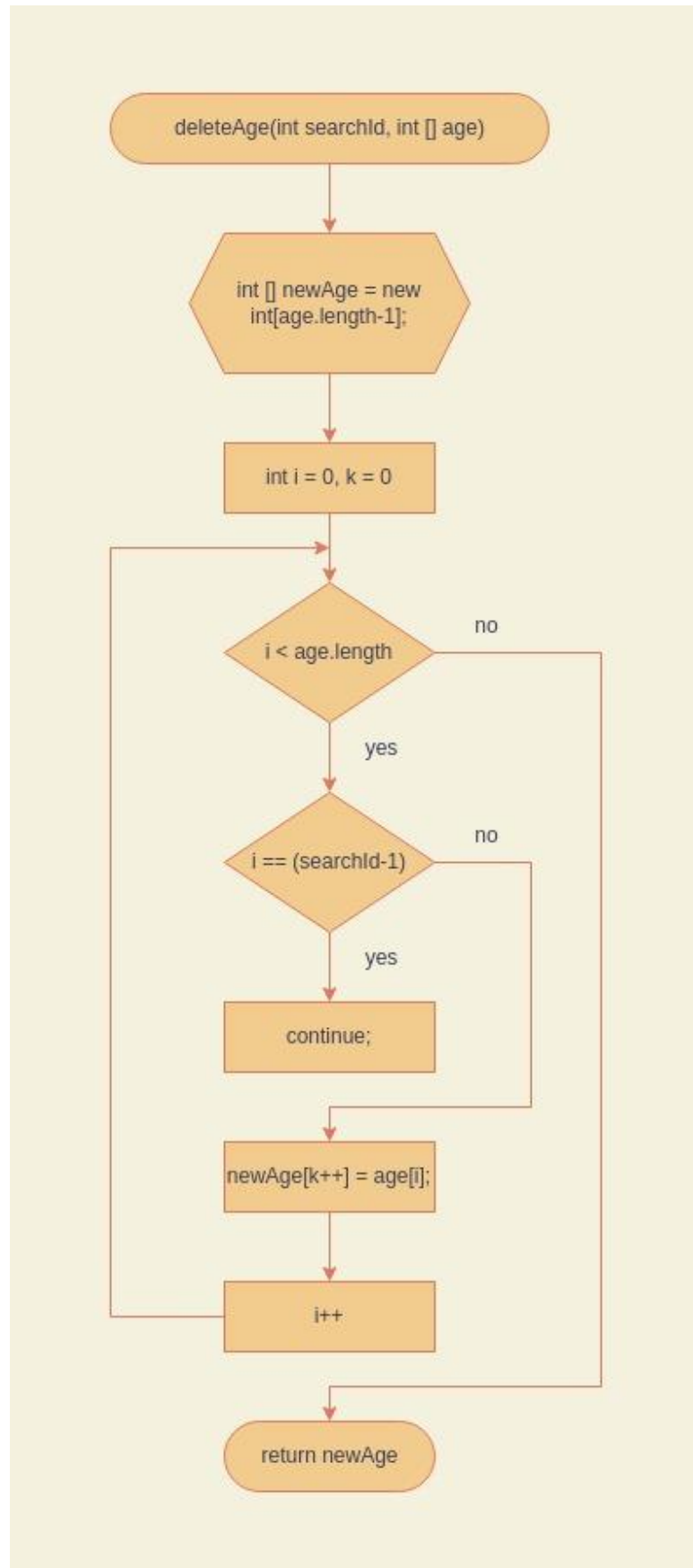
return newName



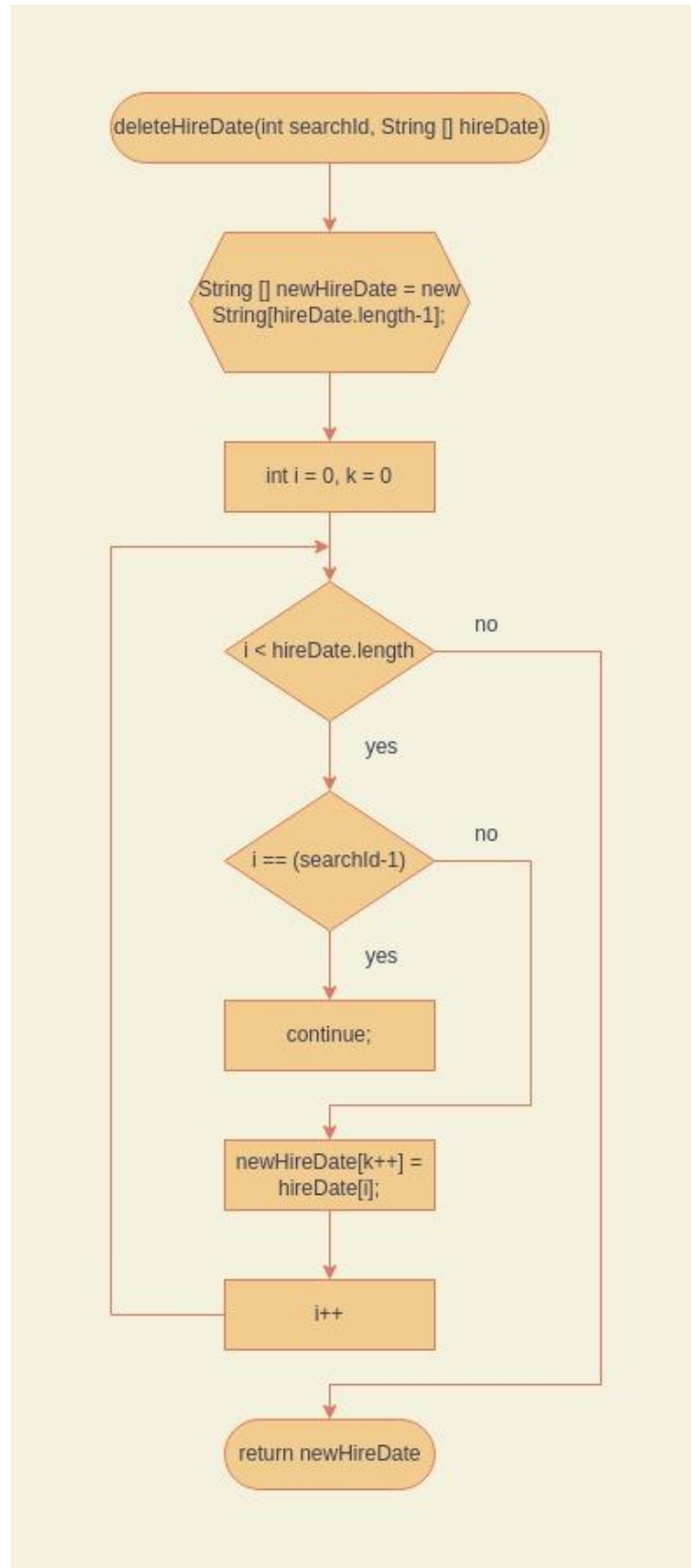
- **Function deleteGender**



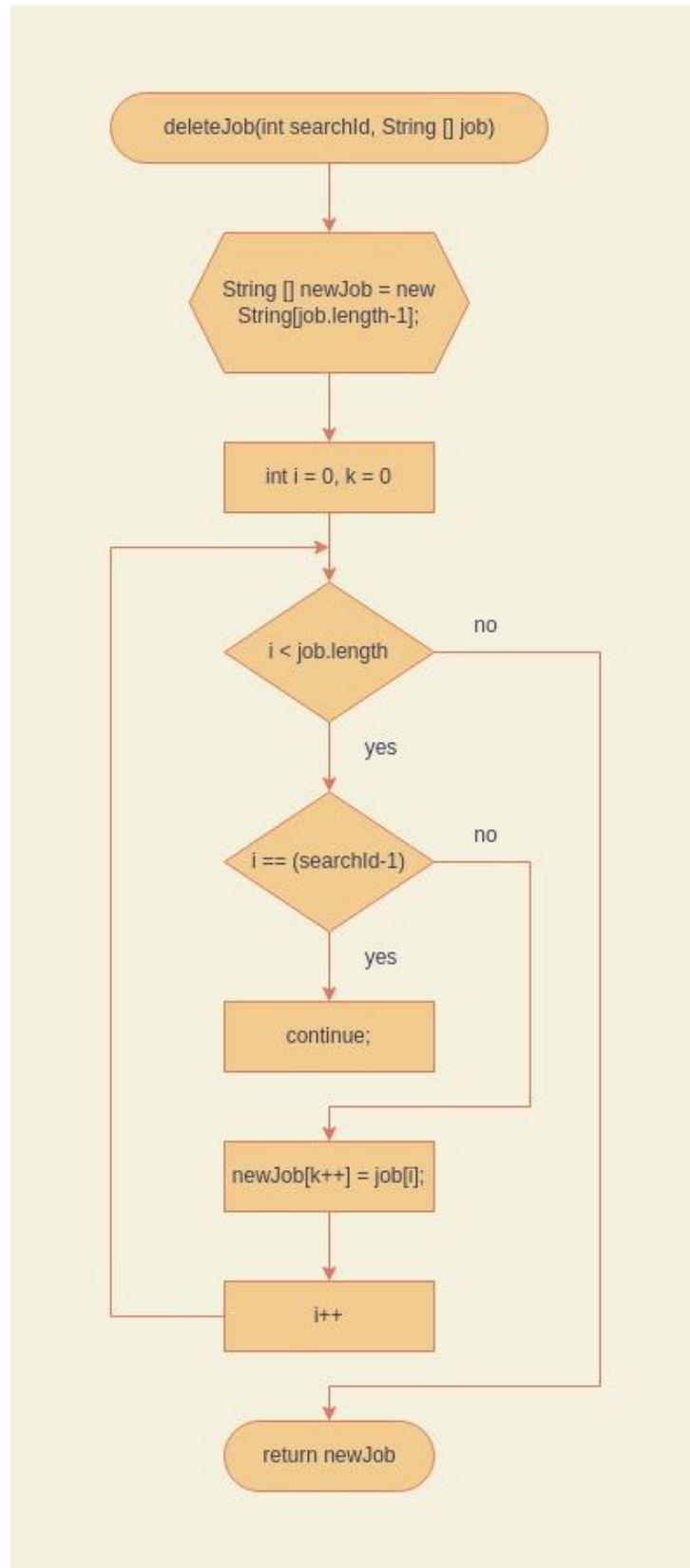
- **Function deleteAge**



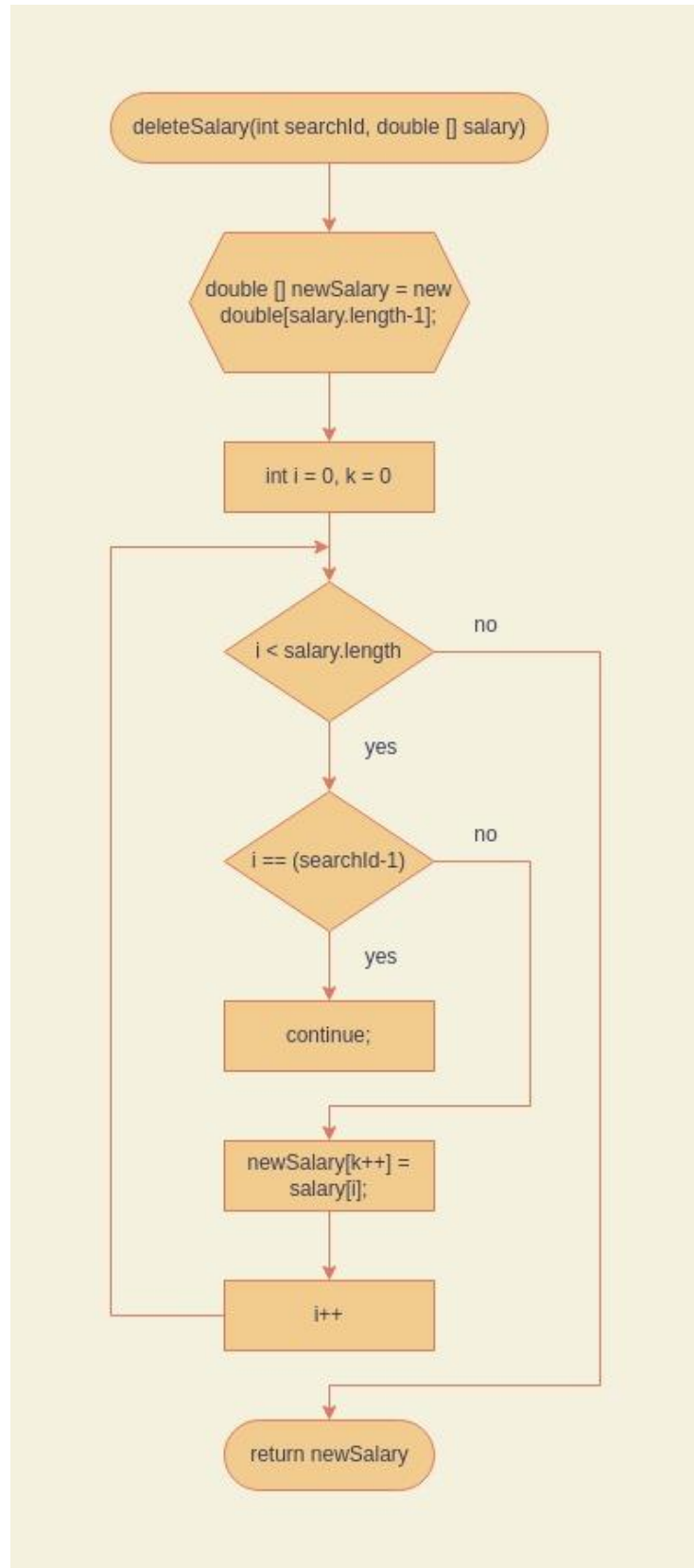
- **Function deleteHireDate**



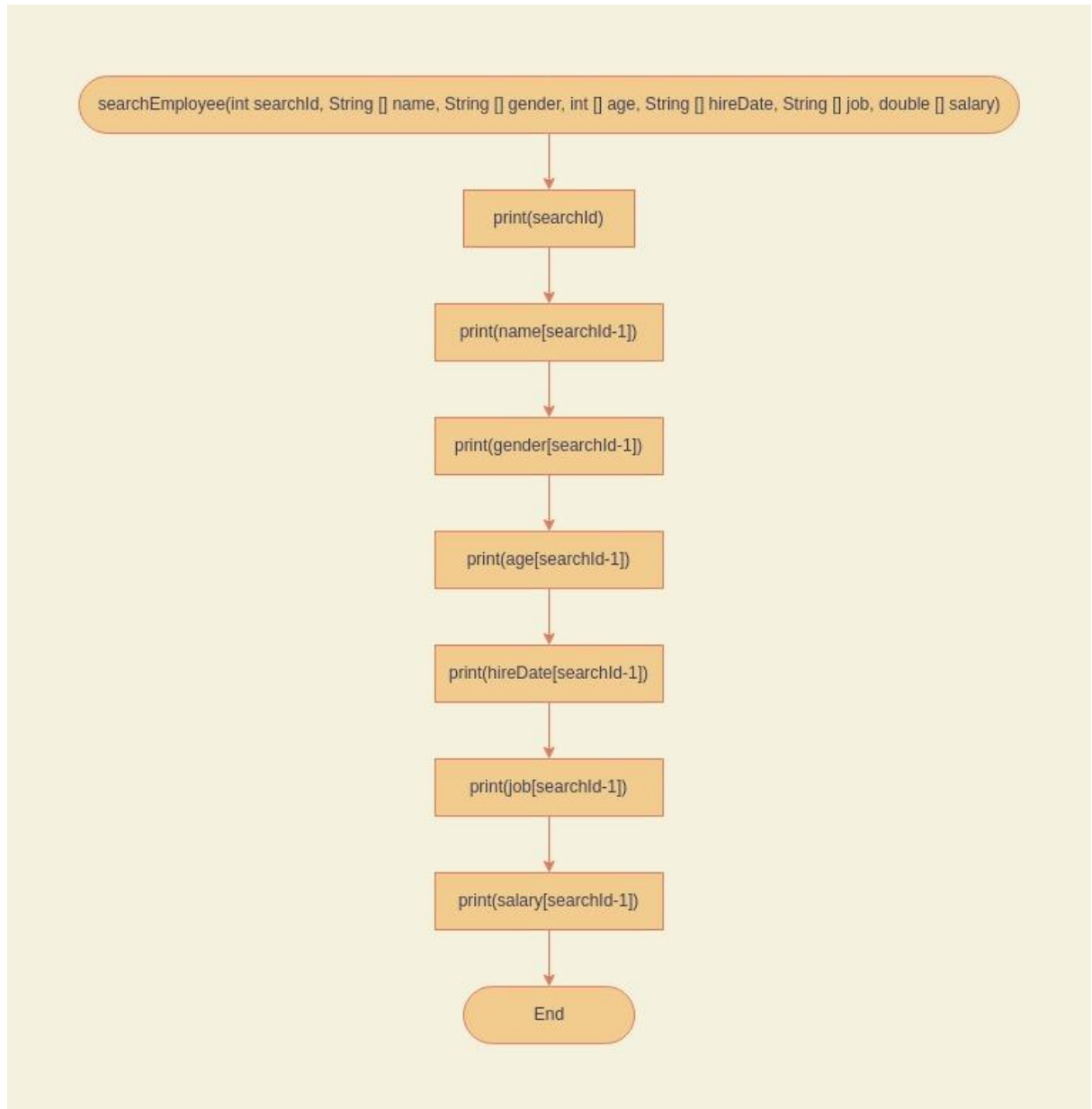
Function deleteJob



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++

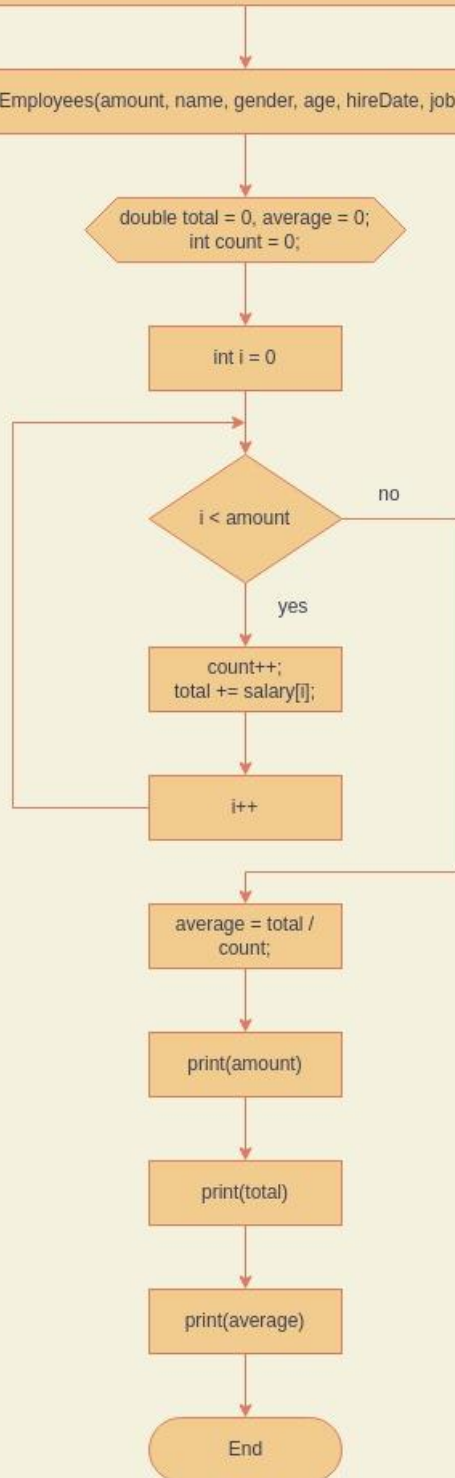
average = total /
count;

print(amount)

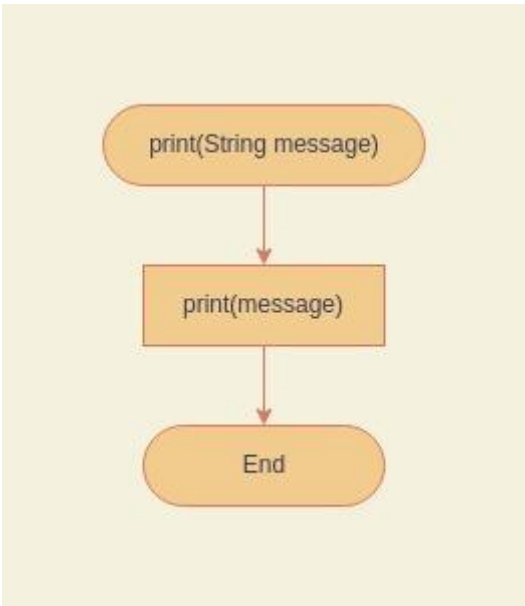
print(total)

print(average)

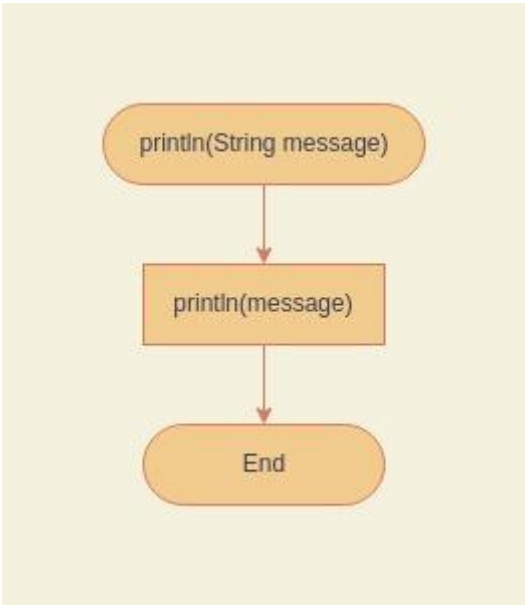
End



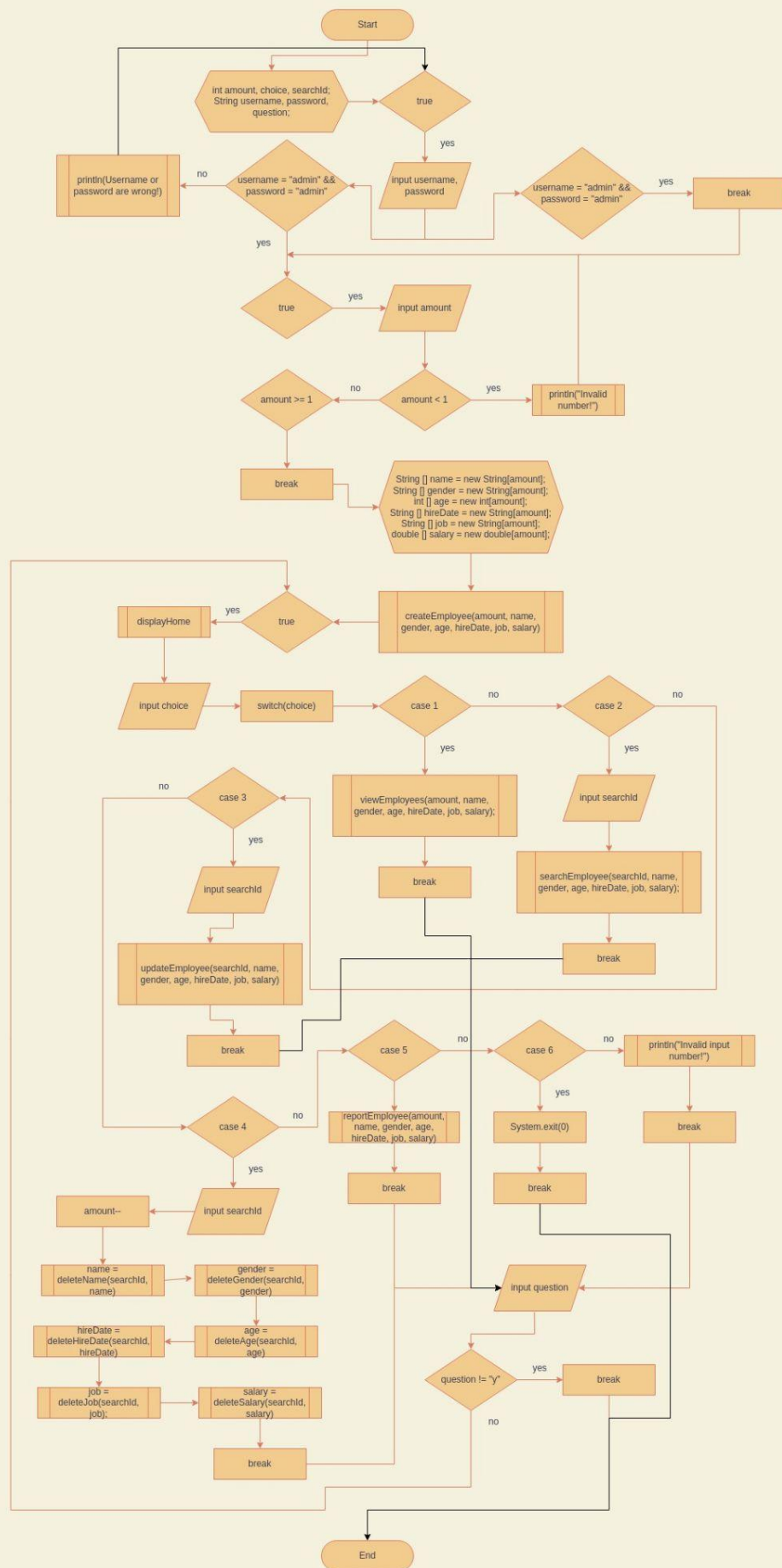
Function print



Function println



Function main



1.2 Steps to Run the Program

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

```
=====
LOGIN STAFF RESTAURANT
=====
Username : admin
Password : admin
```

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

```
=====
LOGIN STAFF RESTAURANT
=====
Username : admin
Password : admin123
Username or password are wrong!
Username : 
```

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


```

=====
LOGIN STAFF RESTAURANT
=====
Username : admin
Password : admin
Insert amount of employee : 

```

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

```

=====
LOGIN STAFF RESTAURANT
=====
Username : admin
Password : admin
Insert amount of employee : -9123781
Invalid number!
Insert amount of employee : 

```

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

```

Insert amount of employee : 2
Insert name of employee : azhar
Insert gender of employee : male
Insert age of employee : 19
Insert hire date of employee : 12-12-2022
Insert job of employee : manager
Insert salary of employee : 1500000
Insert name of employee : rizqi
Insert gender of employee : male
Insert age of employee : 20
Insert hire date of employee : 12-08-2020
Insert job of employee : cashier
Insert salary of employee : 1000000
CREATE EMPLOYEE SUCCESS

```

- 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 EMPLOYEE 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.

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

(zharsuke@LAPTOP-FCSRQQ00) - [~/Documents/College/coding/staff_restaurant]
$
```

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**

```

1  static void displayHome() {
2      println("=====");
3      println("HOME");
4      println("1. View employee");
5      println("2. Search employee");
6      println("3. Update employee");
7      println("4. Delete employee");
8      println("5. Report employee");
9      println("6. Exit");
10     println("=====");
11 }

```

Function viewEmployee

```

1  static void viewEmployees(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
2
3      println("\n=====");
4      println("|   Id   |   Name Employee   |   Gender   |   age   |   Hire Date   |   Job   |   Salary   |");
5      println("=====");
6
7      for (int j = 0; j < amount; j++) {
8
9          System.out.print("|       " + (j+1));
10         System.out.print("      " + name[j]);
11         System.out.print("      " + gender[j]);
12         System.out.print("      " + age[j]);
13         System.out.print("      " + hireDate[j]);
14         System.out.print("      " + job[j]);
15         System.out.printf("      %,2f   |", salary[j]);
16         System.out.println();
17     }
18     println("=====");
19
20 }
21 }

```

Function createEmployee

```

1 static void createEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
2
3     for (int i = 0; i < amount; i++) {
4         print("\nInsert name of employee : ");
5         name[i] = scanner.next();
6         print("\nInsert gender of employee : ");
7         gender[i] = scanner.next();
8         print("\nInsert age of employee : ");
9         age[i] = scanner.nextInt();
10        print("\nInsert hire date of employee : ");
11        hireDate[i] = scanner.next();
12        print("\nInsert job of employee : ");
13        job[i] = scanner.next();
14        print("\nInsert salary of employee : ");
15        salary[i] = scanner.nextDouble();
16    }
17
18    println("CREATE EMPLOYEE SUCCESS\n");
19 }

```

function updateEmployee

```

1 static void updateEmployee(int searchId, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
2
3     String updateName, updateGender, updateHireDate, updateJob;
4     int updateAge;
5     double updateSalary;
6
7     System.out.println("Id = " + searchId);
8     print("\nUpdate name of employee : ");
9     updateName = scanner.next();
10    name[searchId-1] = updateName;
11    print("\nUpdate gender of employee : ");
12    updateGender = scanner.next();
13    gender[searchId-1] = updateGender;
14    print("\nUpdate age of employee : ");
15    updateAge = scanner.nextInt();
16    age[searchId-1] = updateAge;
17    print("\nUpdate hire date of employee : ");
18    updateHireDate = scanner.next();
19    hireDate[searchId-1] = updateHireDate;
20    print("\nUpdate job of employee : ");
21    updateJob = scanner.next();
22    job[searchId-1] = updateJob;
23    print("\nUpdate salary of employee : ");
24    updateSalary = scanner.nextDouble();
25    salary[searchId-1] = updateSalary;
26
27    println("UPDATE EMPLOYEE SUCCESS\n");
28 }

```

function deleteName



```
1  static String [] deleteName(int searchId, String [] name) {  
2  
3      String [] newName = new String[name.length-1];  
4  
5      for (int i = 0, k = 0; i < name.length; i++) {  
6          if (i == (searchId-1)) {  
7              continue;  
8          } else {  
9              newName[k++] = name[i];  
10         }  
11     }  
12     return newName;  
13  
14 }
```

function deleteGender



```
1  static String [] deleteGender(int searchId, String[] gender) {  
2  
3      String [] newGender = new String[gender.length-1];  
4  
5      for (int i = 0, k = 0; i < gender.length; i++) {  
6          if (i == (searchId-1)) {  
7              continue;  
8          } else {  
9              newGender[k++] = gender[i];  
10         }  
11     }  
12     return newGender;  
13  
14 }
```


function deleteAge



```
1  static int [] deleteAge(int searchId, int [] age) {  
2  
3      int [] newAge = new int[age.length-1];  
4  
5      for (int i = 0, k = 0; i < age.length; i++) {  
6          if (i == (searchId-1)) {  
7              continue;  
8          } else {  
9              newAge[k++] = age[i];  
10         }  
11     }  
12     return newAge;  
13  
14 }
```

function deleteHireDate



```
1 static String [] deleteHireDate(int searchId, String [] hireDate) {  
2  
3     String [] newHireDate = new String[hireDate.length-1];  
4  
5     for (int i = 0, k = 0; i < hireDate.length; i++) {  
6         if (i == (searchId-1)) {  
7             continue;  
8         } else {  
9             newHireDate[k++] = hireDate[i];  
10        }  
11    }  
12    return newHireDate;  
13  
14 }
```

Function deleteJob



```
1 static String [] deleteJob(int searchId, String [] job) {  
2  
3     String [] newJob = new String[job.length-1];  
4  
5     for (int i = 0, k = 0; i < job.length; i++) {  
6         if (i == (searchId-1)) {  
7             continue;  
8         } else {  
9             newJob[k++] = job[i];  
10        }  
11    }  
12    return newJob;  
13  
14 }
```

Function deleteSalary

```
1 static double [] deleteSalary(int searchId, double[] salary) {
2
3     double [] newSalary = new double[salary.length-1];
4
5     for (int i = 0, k = 0; i < salary.length; i++) {
6         if (i == (searchId-1)) {
7             continue;
8         } else {
9             newSalary[k++] = salary[i];
10        }
11    }
12    return newSalary;
13
14 }
```

Function searchEmployee

```
1 static void searchEmployee(int searchId, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
2
3     println("\n=====");
4     println("|      Id      |      Name Employee      |      Gender      |      age      |      Hire Date      |      Job      |      Salary      |");
5     println("=====");
6
7     System.out.print("      " + searchId);
8     System.out.print("      " + name[searchId-1]);
9     System.out.print("      " + gender[searchId-1]);
10    System.out.print("      " + age[searchId-1]);
11    System.out.print("      " + hireDate[searchId-1]);
12    System.out.print("      " + job[searchId-1]);
13    System.out.printf("      %,.2f      |", salary[searchId-1]);
14    System.out.println();
15
16    println("=====");
17
18 }
```

Function reportEmployee

```

1 static void reportEmployee(int amount, String [] name, String [] gender, int [] age, String [] hireDate, String [] job, double [] salary) {
2
3     viewEmployees(amount, name, gender, age, hireDate, job, salary);
4     System.out.println();
5
6     double total = 0, average = 0;
7     int count = 0;
8
9     for (int i = 0; i < amount; i++) {
10         count++;
11         total += salary[i];
12     }
13
14     average = total / count;
15
16     println("=====");
17     println("|    Total Employee    |    Total Salary of Employee    |    Average Salary of Employee    |");
18     println("=====");
19     System.out.printf("|    %d", amount);
20     System.out.printf("    %,.2f", total);
21     System.out.printf("    %,.2f    |\\n", average);
22     println("=====");
23
24 }

```

Function print

```

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

```

function println



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

Function main

```

1 public static void main(String[] args) {
2
3     int amount, choice, searchId;
4     String username, password, question;
5     println("=====");
6     println("LOGIN STAFF RESTAURANT");
7     println("=====");
8     while (true) {
9
10        print("Username : ");
11        username = scanner.next();
12        print("Password : ");
13        password = scanner.next();
14
15        if (username.equals("admin") && password.equals("admin")) {
16
17            while (true) {
18
19                print("Insert amount of employee : ");
20                amount = scanner.nextInt();
21
22                if (amount < 1) {
23                    println("Invalid number!");
24                } else if (amount >= 1) {
25                    break;
26                }
27            }
28
29            String [] name = new String[amount];
30            String [] gender = new String[amount];
31            int [] age = new int[amount];
32            String [] hireDate = new String[amount];
33            String [] job = new String[amount];
34            double [] salary = new double[amount];
35            createEmployee(amount, name, gender, age, hireDate, job, salary);
36
37            while (true) {
38
39                displayHome();
40                print("Choice number 1 - 6 : ");
41                choice = scanner.nextInt();
42
43                switch (choice) {
44                    case 1:
45                        println("=====");
46                        println("DATA EMPLOYEE");
47                        println("=====");
48                        viewEmployees(amount, name, gender, age, hireDate, job, salary);
49                        break;
50                    case 2:
51                        println("=====");
52                        println("SEARCH EMPLOYEE");
53                        println("=====");
54                        print("Insert id of employee : ");
55                        searchId = scanner.nextInt();
56                        searchEmployee(searchId, name, gender, age, hireDate, job, salary);
57                        break;
58                    case 3:
59                        println("=====");
60                        println("UPDATE EMPLOYEE");
61                        println("=====");
62                        print("Insert id of employee : ");
63                        searchId = scanner.nextInt();
64                        updateEmployee(searchId, name, gender, age, hireDate, job, salary);
65                        break;
66                    case 4:
67                        println("=====");
68                        println("DELETE EMPLOYEE");
69                        println("=====");
70                        print("Insert id of employee : ");
71                        searchId = scanner.nextInt();
72                        amount--;
73                        name = deleteName(searchId, name);
74                        gender = deleteGender(searchId, gender);
75                        age = deleteAge(searchId, age);
76                        hireDate = deleteHireDate(searchId, hireDate);
77                        job = deleteJob(searchId, job);
78                        salary = deleteSalary(searchId, salary);
79
80                        println("DELETE EMPLOYEE SUCCESS\n");
81                        break;
82                    case 5:
83                        println("=====");
84                        println("REPORT EMPLOYEE");
85                        println("=====");
86                        reportEmployee(amount, name, gender, age, hireDate, job, salary);
87                        break;
88                    case 6:
89                        System.exit(0);
90                        break;
91                    default:
92                        println("Invalid input number!");
93                        break;
94                }
95                print("Input again (y/n) ? ");
96                question = scanner.next();
97
98                if (!question.equalsIgnoreCase("y")) {
99                    break;
100                }
101            }
102        } else {
103            println("Username or password are wrong!");
104        }
105    }
106
107    if (username.equals("admin") && password.equals("admin")) {
108        break;
109    }
110
111 }
112
113 }
114 }

```

```

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 EMPLOYEE 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;
```

```
}
```

```
}
```

```
}
```

```
}
```