

```
public class Company {  
  
    private int[] id;  
  
    private String[] name;  
  
    private float[] salary;  
  
    private int current;  
  
    public Company(int size)  
    {  
  
        id = new int[size];  
  
        name = new String[size];  
  
        salary = new float[size];  
  
        current = 0;  
  
    }  
  
    public boolean addEmployee(int i, String n, float s)  
    {  
  
        if(current >= id.length)  
            return false;  
  
        else{  
  
            id[current] = i;  
  
            name[current] = n;  
  
            salary[current++] = s;  
  
            return true;  
  
        }  
  
    }  
  
    public int search(int i)
```

```
{  
    for(int j=0; j<current; j++)  
        if(id[j] == i)  
            return j;  
    return -1;  
}  
  
public float findMaxSalary()  
{  
    float max = salary[0];  
    for(int i=1; i<current; i++)  
        if(salary[i]>max)  
            max = salary[i];  
    return max;  
}  
  
public float findMinSalary()  
{  
    float min = salary[0];  
    for(int i=1; i<current; i++)  
        if(salary[i]<min)  
            min = salary[i];  
    return min;  
}  
  
public float calculateTotalSalaries()  
{  
    float sum = 0.0f;
```

```

        for(int i=0; i<current; i++)
            sum += salary[i];

        return sum;
    }

    public float calculateAverageSalaries()
    {
        return calculateTotalSalaries()/current;
    }

    public void printEmployeeData(int i)
    {
        int index = search(i);
        if(index != -1)
        {
            System.out.println("-----");
            System.out.println("printing Employee Data");
            System.out.println("-----");
            System.out.println("id: "+id[index]);
            System.out.println("name: "+name[index]);
            System.out.println("salary: "+salary[index]);
            System.out.println("-----");
        }
        else
            System.out.println("Employee ID is not found");
    }
}

```

```
import java.util.Scanner;

public class TestCompany {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        Company c = new Company(20);

        System.out.println("Welcome to Company System");

        int choice;

        do{

            System.out.println("1)Add a new employee info");

            System.out.println("2)Quit");

            System.out.println("Your choice?");

            choice = input.nextInt();

            switch(choice)

            {

            case 1:

                System.out.println("Enter employee ID, name, and salary,respectively");

                boolean b = c.addEmployee(input.nextInt(), input.next(), input.nextFloat());

                if(b)

                    System.out.println("Employee data were added successfully");

                else

                    System.out.println("Unable to add an employee! (array is full)");

                break;

            case 2:

                System.out.println("max salary: "+c.findMaxSalary());
```

```
        System.out.println("min salary: "+c.findMinSalary());

        System.out.println("total salaries: "+c.calculateTotalSalaries());

        System.out.println("average salaries: "+c.calculateAverageSalaries());

        c.printEmployeeData(666);//choose an existed id

        c.printEmployeeData(999);//choose an ID that does not exist

        break;

    default:

        System.out.println("Wrong choice");

    }

}while(choice != 2);

}

}
```