```
public class Employee {
      private String name;
      private int age;
      private char gender;
      public Employee()
            name =" ";
      {
            age =0;
            gender= ' ';
      }
      public Employee(String nn, int aa, char gg)
      {
            name = nn;
            age = aa;
            gender= gg;
      }
      public String getName() {
            return name;
      }
      public void setName(String name) {
            this.name = name;
      }
      public int getAge() {
            return age;
      }
      public void setAge(int age) {
            this.age = age;
      }
      public char getGender() {
            return gender;
      }
      public void setGender(char gender) {
            this.gender = gender;
      }
      public String toString() {
             return ("The name is: " + name + "\nThe age is: " + age +
                         "\nThe gender is: " + gender);
      }
      public void display()
            System.out.println("The name is: " + name);
System.out.println("The age is: " + age);
            System.out.println("The gender is: " + gender);}}
```

```
public class Company {
      private String name;
      private Employee [] ArrEmp;
      private int nbe;
      public Company()
      {
            name = " ";
            ArrEmp = new Employee[100];
            nbe =0;
      public Company(String nn, int size)
      {
            name = nn;
            ArrEmp = new Employee[size];
            nbe =0;
      }
      public boolean insertEmployee(Employee EE)
      {
            if(nbe<ArrEmp.length)</pre>
            {
                  ArrEmp[nbe] = EE;
                  nbe++;
                  return true;
            else return false;
      }
      public void display()
            System.out.println("The name of the Company is: " + name);
            System.out.println("The Employees are: ");
            for(int i=0; i<nbe; i++)</pre>
                  ArrEmp[i].display();
      }
      public boolean deleteEmployee(int pos)
      {
            if(nbe == 0)
                  return false;
            else
            {
                  ArrEmp[pos] = ArrEmp[nbe -1];
                  ArrEmp[nbe -1] = null;
                  nbe--;
                  return true;
            }}
```

```
public boolean findhByName(String name)
{
     for(int i=0; i<nbe; i++)</pre>
       if(ArrEmp[i].getName().equals(name))
             return true;
     }
      return false;
}
public int findEmployee(Employee EE)
      for(int i=0; i<nbe; i++)</pre>
            if(ArrEmp[i].getName().equals(EE.getName()))
                   if(ArrEmp[i].getAge() == EE.getAge())
                         if(ArrEmp[i].getGender() == EE.getGender())
                               return i;
      return -1;
}
public boolean deleteEmployee(Employee EE)
{
      int pos = findEmployee(EE);
      if(pos!=-1)
      {
                  ArrEmp[pos] = ArrEmp[nbe -1];
                  ArrEmp[nbe -1] = null;
                  nbe--;
                  return true;
      }
      else
            return false;
}
public double averageOfAge()
      int sum =0;
      for(int i=0; i<nbe;i++)</pre>
            sum+=ArrEmp[i].getAge();
      }
      if(nbe !=0)
            return (double)sum/nbe;
      else
            return 0.0;}
```

```
public Employee oldestEmployee()
     {
          Employee oldest = ArrEmp[0];
          for(int i=1; i<nbe;i++)</pre>
               if(ArrEmp[i].getAge()> oldest.getAge())
                    oldest = ArrEmp[i];
          }
         return oldest;
     }
          }
public class testCompany {
     public static void main(String[] args) {
          Company CC = new Company("AL Marai", 10);
          Employee E1 = new Employee("Ali", 34, 'M');
          Employee E2 = new Employee("Nora", 37, 'F');
          Employee E3 = new Employee("Zeinab", 38, 'F');
          Employee E4 = new Employee("Bader", 40, 'M');
          CC.insertEmployee(E1);
          CC.insertEmployee(E2);
          CC.insertEmployee(E3);
          CC.insertEmployee(E4);
     CC.display();
     System.out.println("========");
    CC.deleteEmployee(2);
     CC.display();
     System.out.println("=========");
     System.out.println(CC.findhByName("Bader"));
     System.out.println("========");
     System.out.println("The Object was found at: " +CC.findEmployee(E2));
     System.out.println("=========");
     CC.deleteEmployee(E1);
     System.out.println("Print Objects after delete:");
    CC.display();
     System.out.println("=======");
     System.out.println("The average is: " + CC.averageOfAge());
     System.out.println("========");
     Employee res = CC.oldestEmployee();
     System.out.println("The oldest Employee is: " + res.getName());}}
```