

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;
import java.util.stream.Collectors;
```

```
class Candidate{
```

```
    private int id;
    private String name;
    private int age;
    private String gender;
    private String department;
    private int yearOfJoining;
    private double salary;
```

```
    public Candidate(int id, String name, int age, String gender, String department, int yearOfJoining, double salary) {
        super();
        this.id = id;
        this.name = name;
        this.age = age;
        this.gender = gender;
        this.department = department;
        this.yearOfJoining = yearOfJoining;
        this.salary = salary;
    }
```

```
    public String getName() {
        return name;
    }
```

```
    public void setName(String name) {
        this.name = name;
    }
```

```
    public int getId() {
        return id;
    }
```

```
    public void setId(int id) {
        this.id = id;
    }
```

```
    public int getAge() {
        return age;
    }
```

```
public void setAge(int age) {  
    this.age = age;  
}
```

```
public String getGender() {  
    return gender;  
}
```

```
public void setGender(String gender) {  
    this.gender = gender;  
}
```

```
public String getDepartment() {  
    return department;  
}
```

```
public void setDepartment(String department) {  
    this.department = department;  
}
```

```
public int getYearOfJoining() {  
    return yearOfJoining;  
}
```

```
public void setYearOfJoining(int yearOfJoining) {  
    this.yearOfJoining = yearOfJoining;  
}
```

```
public double getSalary() {  
    return salary;  
}
```

```
public void setSalary(double salary) {  
    this.salary = salary;  
}
```

```
@Override  
public String toString() {  
    return "Employee [id=" + id + ", name=" + name + ", age=" + age + ", gender=" + gender + ", department=" + department + ", yearOfJoining=" + yearOfJoining + ", salary=" + salary + "];"  
}  
}
```

```
class Implementation{  
    //Write Your Code Here..
```

```

    public static Map<String, Long> getCount(List<Candidate> list){
        Map<String, Long> countOne = list.stream().collect(Collectors.groupingBy(Candidate::getGender,Collectors.counting()));
        return countOne;
    }
    public static Map<String, Double> getAverageAge(List<Candidate> list){
        Map<String, Double> countTwo = list.stream().collect(Collectors.groupingBy(Candidate::getGender,Collectors.averagingDouble(Candidate::getAge)));
        return countTwo;
    }
    public Optional<Candidate> getYoungestCandidateDetails(List<Candidate> list){
        Optional<Candidate> youngestMaleCandidate= list.stream().filter(e -> e.getGender()=="Male" && e.getDepartment()=="Product Development").min(Comparator.comparingInt(Candidate::getAge));
        return youngestMaleCandidate;
    }

}

public class HiringOn {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        List<Candidate> list = new ArrayList<>();
        list.add(new Candidate(111, "Jiya Brein", 32, "Female", "HR", 2011, 25000.0));
        list.add(new Candidate(144, "Scarlet Jhonson", 28, "Male", "Product Development", 2014, 32500.0));

        Implementation i1 = new Implementation();

        System.out.println(i1.getCount(list));
        System.out.println(i1.getAverageAge(list));
        System.out.println(i1.getYoungestCandidateDetails(list));

    }

}

```