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Program Name: - StringAPI

```
public class Employee {
    int id;
    String name;
    int age;
    String gender;
    String department;
    double salary;
    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    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 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 double getSalary() {
        return salary;
    }
    public void setSalary(double salary) {
        this.salary = salary;
    }
    public Employee(int id, String name, int age, String gender, String
department, double salary) {
        super();
        this.id = id;
        this.name = name;
        this.age = age;
        this.gender = gender;
        this.department = department;
        this.salary = salary;
    }
    @Override
    public String toString() {
        return "Employee [id=" + id + ", name=" + name + ", age=" + age + ",
gender=" + gender + ", department="
+ department + ", salary=" + salary + "];"
    }
}
```

```
}  
import java.text.Collator;  
  
import java.util.ArrayList;  
  
import java.util.Collection;  
  
import java.util.Collections;  
  
import java.util.List;  
  
import java.util.Map;  
  
import java.util.stream.Collectors;  
  
import java.util.stream.Collectors;  
  
  
public class ListOfEmployees {  
  
    public static void main(String[] args) {  
  
        List<Employee> emp= new ArrayList<Employee>();  
        emp.add(new Employee(101, "Atul", 22, "male", "mechanical", 50000.56));  
        emp.add(new Employee(102, "Arvind", 23, "male", "civil", 4500.5154));  
        emp.add(new Employee(103, "Mrunal", 21, "female", "mechanical",84054.545));  
        emp.add(new Employee(104, "Gaytri", 20, "female", "electrical", 2500.2525));  
        emp.add(new Employee(105, "Amol", 52, "male", "computer", 45574.255));  
        emp.add(new Employee(210, "Sanket", 65, "male", "HR", 4582.526));  
        emp.add(new Employee(65, "Shrinkant", 35, "male", "ADV", 85000.52));  
        emp.add(new Employee(405, "Ranjana", 25, "female", "Techer", 36000.25));  
  
  
        //how many male and female employ are there in the organization  
  
        /*Map<String, Long> noOfMaleAndFemaleEmployees=  
        emp.stream().collect(Collectors.groupingBy(Employee::getGender, Collectors.counting()));  
        System.out.println(noOfMaleAndFemaleEmployees);*/  
  
        //print the name of all departments in the organization  
  
        emp.stream().map(Employee::getDepartment).distinct().forEach(System.out::println);  
  
        //Ayerage age of male and female
```

```

/*Map<String,Double>angAgeofmaleAndFemaleEmployees=emp.stream().collect(Collectors.groupingBy
    (Employee::getGender,Collectors.averagingInt(Employee::getAge)));

System.out.println(angAgeofmaleAndFemaleEmployees);

*/
}
}

```

