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Program Name: - `String API`

```
 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.Collector; 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);

                    */

}

}
```