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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 + "]\n";
    }
}

```

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```

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);

        */
    }
}

```

---

## Output

The screenshot shows the Eclipse IDE interface. The title bar indicates the project is 'hibernate - StringAPI/src/ListOfEmployees.java - Eclipse IDE'. The console window at the bottom shows the output of the Java application, which is a list of departments: mechanical, civil, electrical, computer, HR, ADV, and Techer. The console also shows the command prompt and the path to the Java application.

```

hibernate - StringAPI/src/ListOfEmployees.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
<terminated> ListOfEmployees (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (17-Feb-2022, 12:05:03 pm - 12:05:04 pm)
mechanical
civil
electrical
computer
HR
ADV
Techer

```