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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.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));
```

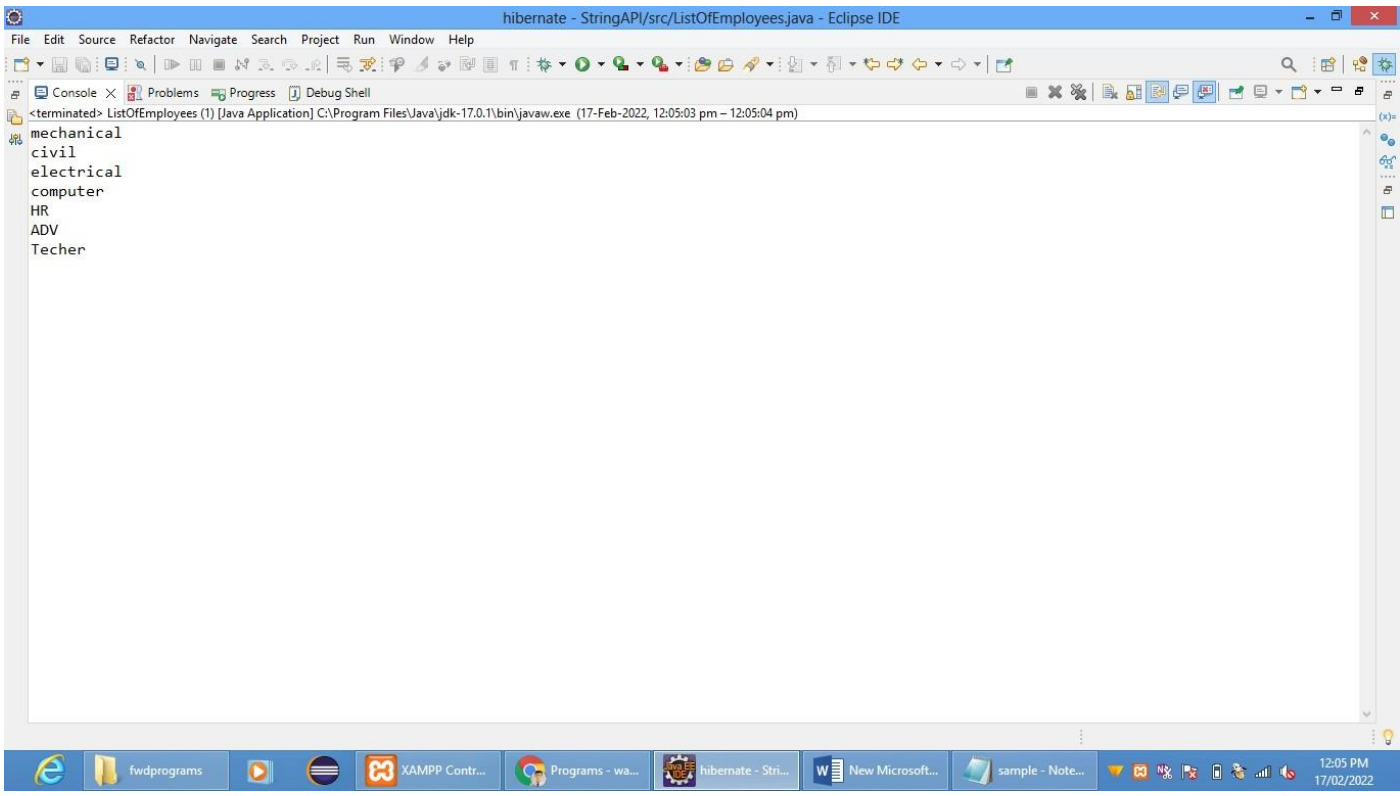
```
        //how many male and female employ are there in the organization
                /*Map<String, Long> noOfMaleAndFemaleEmployees=
emp.stream().collect(Collectors.groupingBy(Employee::getGender, Collectors.counting()));
System.out.println(noOfMaleAndFemaleEmployees);*/

        //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);
                */
}
}
```

Output