Name: - Atul Ratnakar Wakle

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