Name: - shubham dhere

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.gr
                        oupingBy
                        (Employee::getGender,Collectors.averagingInt(Employee::getAge)));
            System.out.println(angAgeofmaleAndFemaleEmployees);
            */
}
}
```