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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.groupi
n gBy
(Employee::getGender,Collectors.averagingInt(Employee::getAge)));
System.out.println(angAgeofmaleAndFemaleEmployees);
*/
}
}
```