# StringAPI

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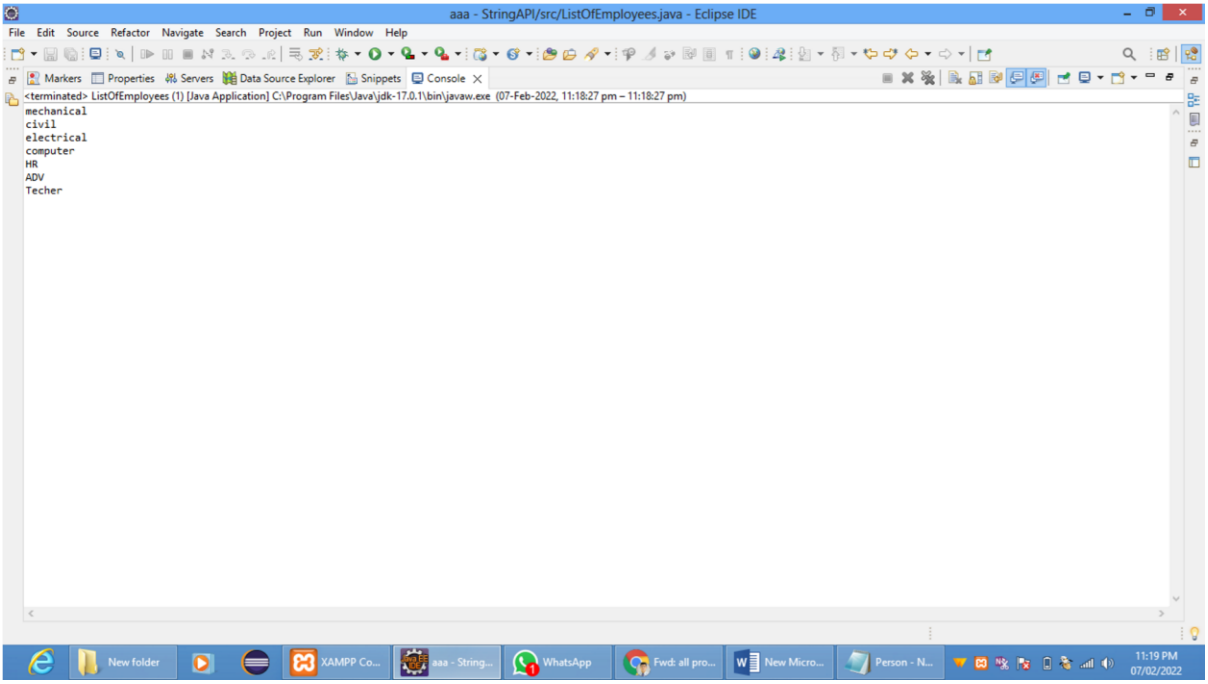
```
public class Employee {
int id;  String name;
int age;  String
gender;  String
department;  double
salary;  public int
getId() {  return id;
}
public void setId(int id) {  this.id
= id;
}
public String getName() {  return
name;
}
public void setName(String name) {  this.name
= name;
}
public int 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.gro
upin gBy
(Employee::getGender,Collectors.averagingInt(Employee::getAge)));
System.out.println(angAgeofmaleAndFemaleEmployees);
*/
} }
```


aaa - StringAPI/src/ListOfEmployees.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> ListOfEmployees (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (07-Feb-2022, 11:18:27 pm – 11:18:27 pm)
mechanical
civil
electrical
computer
HR
ADV
Techer
New folder
XAMPP Co...
aaa - String...
WhatsApp
Fwd: all pro...
New Micro...
Person - N...
11:19 PM
07/02/2022