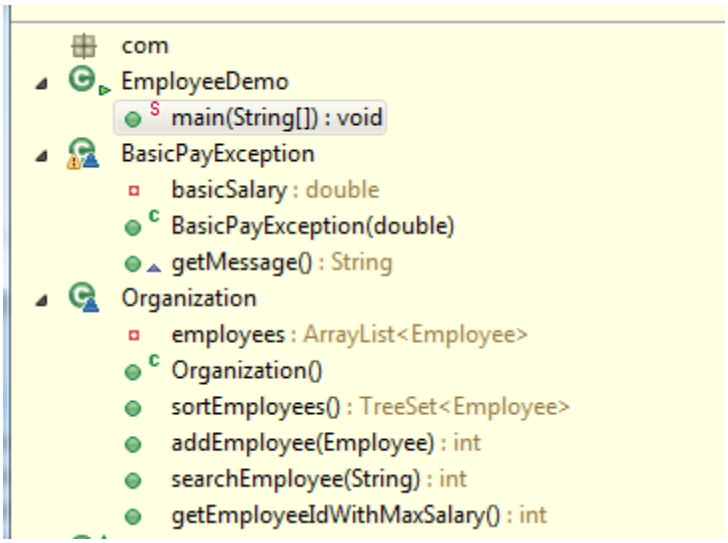
For the question solved before, add below method in Organization class and test the same with sample input/output shared.

sortEmployees: This method will return tree set of Employee objects by sorting the objects based on employee id.

Also, add the BasicPayException class as per described.

Outline:



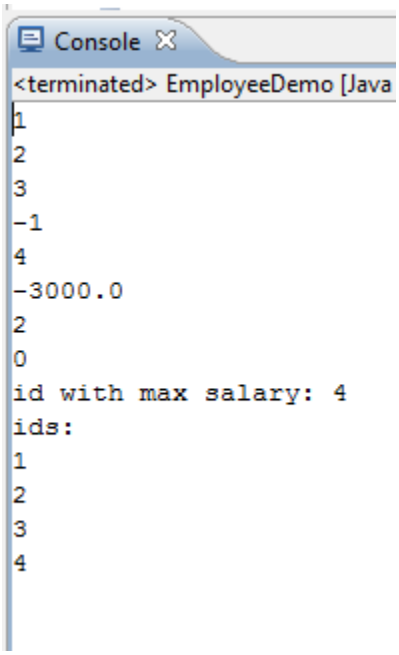
BasicPayException class is extended from Exception. It has one attribute – basicSalary which is set through constructor and returned in getMessage() method.

This exception is thrown in addEmployees method when the employee being added has basicPay < 0.

Sample Input:

```
public static void main(String[] args) {

    Organization o = new Organization();

    try
    {
    System.out.println(o.addEmployee(new Associate(3, "aaa", 5000, 7000)));
    System.out.println(o.addEmployee(new Associate(1, "aaa", 4000, 6000)));
    System.out.println(o.addEmployee(new Consultant(2, "bbb1", 4000, 1000, 5000)));
    System.out.println(o.addEmployee(new Consultant(1, "bbb2", 3000, 1000, 5000)));
    System.out.println(o.addEmployee(new Consultant(4, "bbb3", 3000, 8000, 2000)));
    System.out.println(o.addEmployee(new Consultant(5, "bbb3", -3000, 8000, 2000)));
    }
    catch(BasicPayException e)
    {
        System.out.println(e.getMessage());
    }

    System.out.println(o.searchEmployee("aaa"));
    System.out.println(o.searchEmployee("bbb"));
    System.out.println("id with max salary: " + o.getEmployeeIdWithMaxSalary());
    System.out.println("ids:");
    TreeSet<Employee> set = o.sortEmployees();
    for(Employee e: set) System.out.println(e.getEmpId());

}
```

Output:


Console
<terminated> EmployeeDemo [Java
1
2
3
-1
4
-3000.0
2
0
id with max salary: 4
ids:
1
2
3
4