## **Collections**

## **Assignments**

1.

```
Definition of the content of the con
```

2.

```
☑ TreeSet1.java ⋈
  1 package com.collections;
                                                                                       <terminated> TreeSet1 [Java Application] C:\Program Files\Java\)
    import java.util.*;
                                                                                       [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Reverse Set:[10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
  3 public class TreeSet1 {
         public static void main(String[] args) {
              TreeSet<Integer> test=new TreeSet<Integer>();
              test.add(1);
              test.add(2);
              test.add(3);
 10
              test.add(4);
              test.add(5);
              test.add(6);
              test.add(7);
              test.add(8);
14
              test.add(9);
 15
              test.add(10);
16
              System.out.println(test);
System.out.println("Reverse Set:"+test.descendingSet());
 17
18
 19
20
22 }
```

3.

```
□ □ □ Console ¤
 🗓 Emp.java 🛭
  1 package com.collections;
                                                                                           <terminated > Emp [Java Application] C:\Program
                                                                                           1 Chandan CSE 200000.26
2 Jayanth ECE 200100.58
3 Mani ME 22000.96
  2 import java.util.*;
   4 class Employee{
          int id;
          String name;
  6
          String department;
  9⊜
          public Employee(int id, String name, String department, doubl
  10
               this.id=id:
  11
               this.name=name;
               this.department= department;
  13
               this.salary= salary;
 14
 15
 18⊝
        public int getId() {
               return id;
 19
  20
  21
        public void setId(int id) {
  22⊖
              this.id = id;
  23
  25
        public String getName() {
 26⊖
  27
               return name;
  29⊝
          public String getDepartment() {
  30
               return department;
  31
  33⊝
        public void setDepartment(String department) {
  34
               this.department = department;
  35
  36
  37⊝
          public double getSalary() {
  38
               return salary;
  39
 40
 41⊖
          public void setSalary(double salary) {
 42
               this.salary = salary;
 43
☐ Emp.java 
public double gecsatary() {
                                                                                     □ □ □ Console 🖾
                                                                                            <terminated > Emp [Java Application] C:\Prog
 38
              return salary;
                                                                                            1 Chandan CSE 200000.26
2 Jayanth ECE 200100.58
3 Mani ME 22000.96
 40
         public void setSalary(double salary) {
   this.salary = salary;
 419
 42
 43
 44 }
 45 class MynameComp implements Comparator<Employee>
46 {
 47
         public int compare(Employee o1, Employee o2) {
△49
               return o1.getName().compareTo(o2.getName());
 51
 53
 54 }
 55
 56 public class Emp {
580 public static void main(String[] args) {
59 TreeSet<Employee> e = new TreeSet<Employee>(new MynameComp());
 60
61
           Employee e1 = new Employee(1,"Chandan","CSE",200000.26);
Employee e2 = new Employee(2,"Jayanth","ECE",200100.58);
Employee e3 = new Employee(3,"Mani","ME",22000.96);
 62
 63
64
65
66
               e.add(e1);
               e.add(e2);
e.add(e3);
 67
68
 69
70
71
72
73
               for(Employee s : e)
                    System.out.println(s.id+" "+s.name+" "+s.department+"
          }
          }
 78
```

```
- □ □ Console 🛭 🔗 🕒 💥 🖳 🔐 👺 🖵 🗗 🖻
 ☑ LeapYearDemo.java ⋈
                                                                                                                                       <terminated > LeapYearDemo [Java Application] C:\Program Files\Java\j
  8 public class LeapYearDemo {
                                                                                                                                        01/09/1999 is not an leap year
10/12/2000 is an leap year
18/10/2003 is not an leap year
            public static void main(String[] args) {
 10⊜
Dateex date = new Dateex("01/09/1999");
   Dateex date1 = new Dateex("10/12/2000");
   Dateex date2 = new Dateex("18/10/2003");
                       List<Dateex> dob = new LinkedList<>();
dob.add(date);
dob.add(date1);
dob.add(date2);
                       DateTimeFormatter df = DateTimeFormatter.ofPattern("dd/MM/yyyy");
                       for (int i = 0; i < dob.size(); i++) {</pre>
                             LocalDate up = LocalDate.parse(dob.get(i).date,df);
String s=(up).format(df);
                             if(up.getYear() % 4 == 0) {
    System.out.println(s + " is an leap year");
}else {
    System.out.println(s + " is not an leap year");
            String date;
            public Dateex(String date) {
                 super();
this.date = date;
```