Collection Program:

Employee.java

```java
package collection_fw;

public class Employee {
	private int empid;
	private String empName;
	private float empsal;

	public Employee(int empid, String empName, float empsal) {
		// TODO Auto-generated constructor stub
		this.empid=empid;
		this.empName=empName;
		this.empsal=empsal;
	}
	public int getEmpid()
	{
		return empid;
	}
	public String getEmpName() {
		return empName;
	}
	public void setEmpName(String empName) {
		this.empName = empName;
	}
	public float getEmpsal() {
		return empsal;
	}
	public void setEmpsal(float empsal) {
		this.empsal=empsal;
	}
	public void setEmpid(int empid) {
		this.empid = empid;
	}
	@Override
	public String toString() {
		return "Employee [empid=" + empid + ", empName=" + empName + ",
empsal=" + empsal + ", getEmpid()=" + getEmpid()
				+ ", getEmpName()=" + getEmpName() + ", getEmpsal()=" +
getEmpsal() + ", getClass()=" + getClass()
				+ ", hashCode()=" + hashCode() + ", toString()=" +
super.toString() + "]";
	}

}
```

EmployeeListDemo.java

```java
package collection_fw;

import java.util.ArrayList;

import java.util.Collections;

import java.util.Iterator;

import java.util.List;


public class EmployeeListDemo {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		List<Employee> employees=new ArrayList<Employee>();
		Employee Emp=new Employee(101,"vaishali",2020.80f);
		employees.add(Emp);
		employees.add(new Employee(102,"rupali",9090.80f));
		employees.add(new Employee(102,"rupali",9090.80f));
		employees.add(new Employee(103,"pooja",9040.80f));
		employees.add(new Employee(104,"amruta",9050.80f));
		employees.add(new Employee(102,"rupali",9090.80f));
		System.out.println(employees);
		Iterator it=employees.listIterator();
		while(it.hasNext())
		{
			Employee emp=(Employee)it.next();

	System.out.println(emp.getEmpid()+"\t"+emp.getEmpName()+"\t"+emp.getEmpsal(
));
		}
		ArrayList<String>a1=new ArrayList<String>();
		for(int i=0;i<employees.size();i++)
		{
			Employee emp=employees.get(i);
			String name=emp.getEmpName();
```

```
                    a1.add(name);

            }

            Collections.sort(a1);

            System.out.println(a1);

            Collections.reverse(a1);

            System.out.println(a1);



        }



}
```
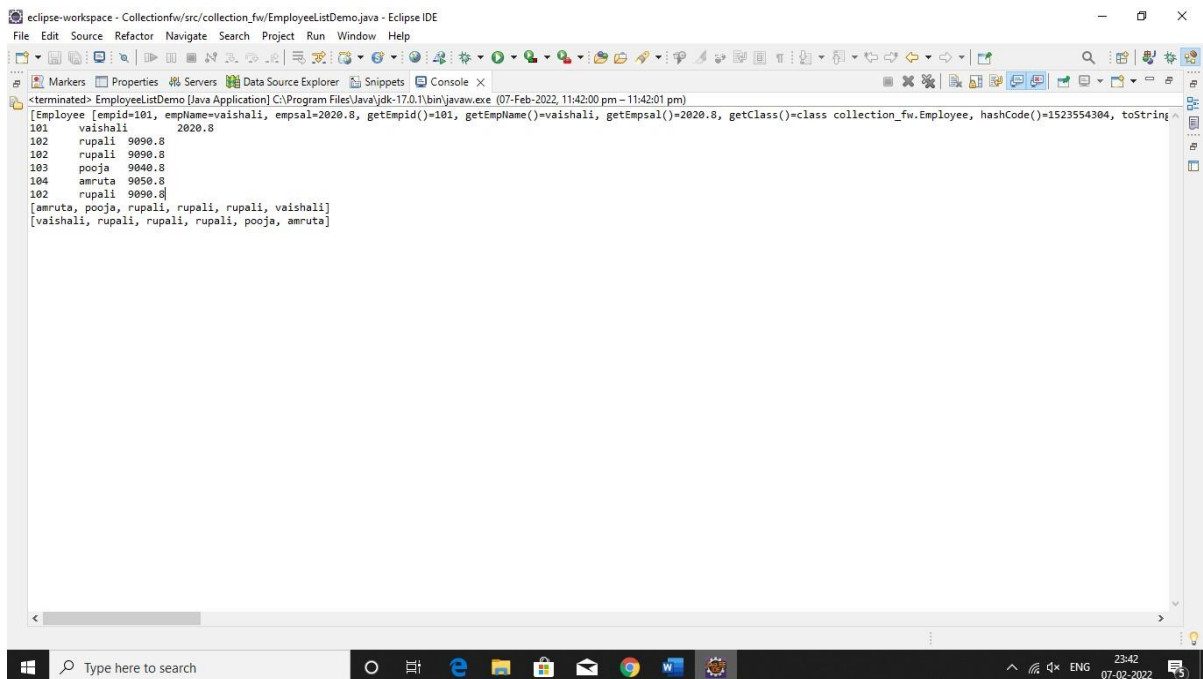
Output:

Program 2:

Studentinfo.java

```java
package collection_fw;

public class StudentInfo {
    private int RollNo;
    private String StName;
    private String StBranch;

    public StudentInfo(int rollNo, String stName, String stBranch)
    {
        this.RollNo = rollNo;
```

```java
            this.StName = stName;
            this.StBranch = stBranch;
        }
        public int getRollNo() {
            return RollNo;
        }
        public void setRollNo(int rollNo) {
            this.RollNo = rollNo;
        }
        public String getStName() {
            return StName;
        }
        public void setStName(String stName) {
            this.StName = stName;
        }
        public String getStBranch() {
            return StBranch;
        }
        public void setStBranch(String stBranch) {
            this.StBranch = stBranch;
        }
        @Override
        public String toString() {
            return "StudentInfo [rollNo=" + RollNo + ", stName=" + StName + ",
stBranch=" + StBranch + ", getRollNo()="
                            + getRollNo() + ", getStName()=" + getStName() + ",
getStBranch()=" + getStBranch() + ", getClass()="
                            + getClass() + ", hashCode()=" + hashCode() + ",
toString()=" + super.toString() + "]";
        }


}
```

Studentdemo.java


```java
package collection_fw;


import java.util.ArrayList;

import java.util.Collections;

import java.util.Iterator;

import java.util.List;


public class StudentDemo {
```

```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    List<StudentInfo> stInfo=new ArrayList<StudentInfo>();
    StudentInfo Info=new StudentInfo(01,"vaishali","cse");
    stInfo.add(Info);
    stInfo.add(new StudentInfo(02,"rupali","mech"));
    stInfo.add(new StudentInfo(03,"amruta","cs"));
    System.out.println(stInfo);
    Iterator it=stInfo.listIterator();
    while(it.hasNext())
    {
        StudentInfo st=(StudentInfo)it.next();

    System.out.println(st.getRollNo()+"\t"+st.getStName()+"\t"+st.getStBranch());
        /*ArrayList<String>a1=new ArrayList<String>();
        for(int i=0;i<stInfo.size();i++)
        {
            StudentInfo emp=stInfo.get(i);
            String name=emp.getStName();
            a1.add(name);
        }
        Collections.sort(a1);
        System.out.println(a1);
        Collections.reverse(a1);
        System.out.println(a1);*/
```
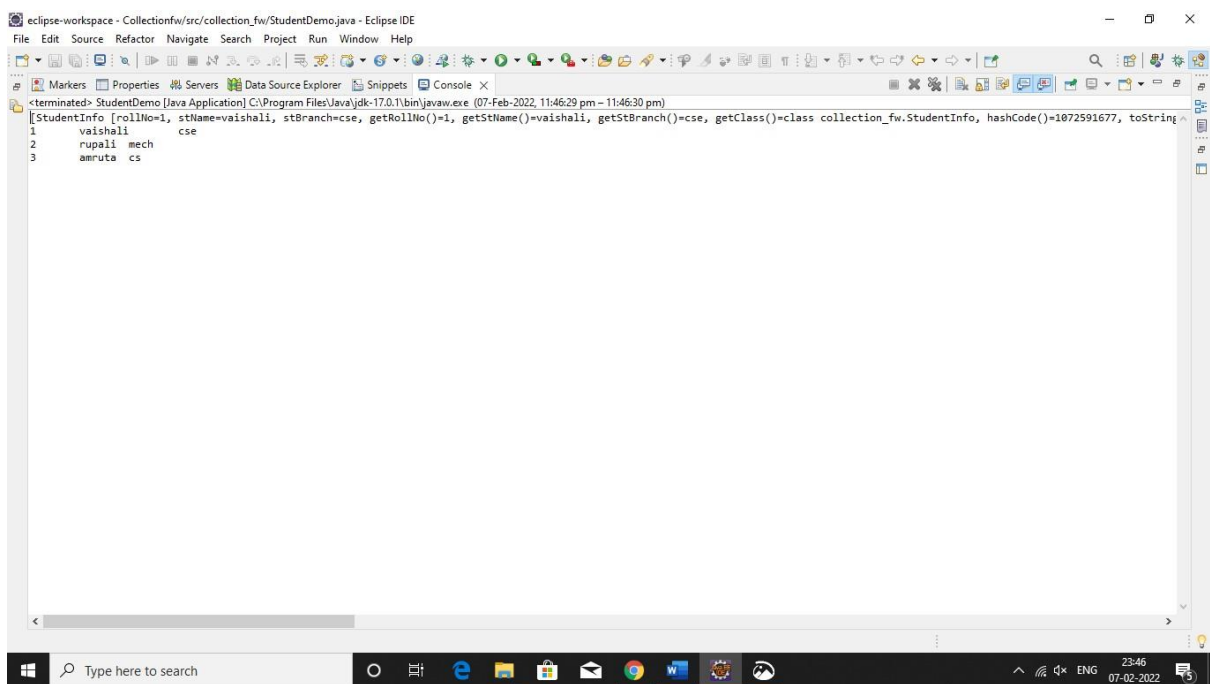
```
        }

    }


}
```

Output:

s