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Collection_Framework Assignment:-

```java
package Collection_fw;

public class Student

{

  private int rollno;
  private int studentid;
  private String studname;

  public Student(int rollno, int studid, String studname)
  {
  this.rollno=rollno;
  this.studentid=studid;
  this.studname=studname;
  }
  public int getrollno()
  {
        return rollno;
  }
  public void setrollno(int rollno)
  {
        this.rollno = rollno;
  }
  public int getstudentid()
  {
        return studentid;
  }
  public void setstudentid(int studid)
  {
        this.studentid=studid;
  }
  public String getstudname()
  {
        return studname;
  }
  public void setstudentname(String studname)
  {
        this.studname = studname;
  }
```

```java
@Override
public String toString() {
    return "Student [rollno=" + rollno + ", studentid=" + studentid + ", studname=" +
studname + ", getrollno()="
            + getrollno() + ", getstudentid()=" + getstudentid() + ", getstudname()=" +
getstudname() + ", getClass()="
            + getClass() + ", hashCode()=" + hashCode() + ", toString()=" +
super.toString() + "]";
    }
}
```

OUTPUT:-

```
[Student [rollno=101, studentid=1, studname=Pooja, getrollno()=101,
getstudentid()=1, getstudname()=Pooja, getClass()=class
Collection_fw.Student, hashCode()=1072591677,
toString()=Collection_fw.Student@3fee733d], Student [rollno=102,
studentid=2, studname=Rutuja, getrollno()=102, getstudentid()=2,
getstudname()=Rutuja, getClass()=class Collection_fw.Student,
hashCode()=1523554304, toString()=Collection_fw.Student@5acf9800],
Student [rollno=103, studentid=3, studname=Akshay, getrollno()=103,
getstudentid()=3, getstudname()=Akshay, getClass()=class
Collection_fw.Student, hashCode()=1175962212,
toString()=Collection_fw.Student@4617c264], Student [rollno=104,
studentid=4, studname=Dinesh, getrollno()=104, getstudentid()=4,
getstudname()=Dinesh, getClass()=class Collection_fw.Student,
hashCode()=918221580, toString()=Collection_fw.Student@36baf30c]]
1       Pooja 101
2       Rutuja      102
3       Akshay      103
4       Dinesh      104


2.
package Collection_fw;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Iterator;
import java.util.List;


public class StudentListDemo {

        public static void main(String[] args) {
        List<Student>std=new ArrayList<Student>();
        Student st=new Student(101,1,"Pooja");
        std.add(st);
        std.add(new Student(102,2,"Rutuja"));
        std.add(new Student(103,3,"Akshay"));
```

```java
        std.add(new Student(104,4,"Dinesh"));

        System.out.println(std);
        Iterator it=std.listIterator();
        while(it.hasNext())
        {
                Student std1=(Student)it.next();

        System.out.println((std1.getstudentid()+"\t"+std1.getstudname()+"\t"+std1.getrollno()+"\t
"));
        }
        ArrayList<String>s1=new ArrayList<String>();
        for(int i=0;i<std.size();i++)
        {
                Student sid=std.get(i);
                String name=((Student) std).getstudname();
        }



        }

}
```

Output:-

```
[Student [rollno=101, studentid=1, studname=Pooja, getrollno()=101, getstudentid()=1,
getstudname()=Pooja, getClass()=class Collection_fw.Student, hashCode()=1072591677,
toString()=Collection_fw.Student@3fee733d], Student [rollno=102, studentid=2,
studname=Rutuja, getrollno()=102, getstudentid()=2, getstudname()=Rutuja,
getClass()=class Collection_fw.Student, hashCode()=1523554304,
toString()=Collection_fw.Student@5acf9800], Student [rollno=103, studentid=3,
studname=Akshay, getrollno()=103, getstudentid()=3, getstudname()=Akshay,
getClass()=class Collection_fw.Student, hashCode()=1175962212,
toString()=Collection_fw.Student@4617c264], Student [rollno=104, studentid=4,
studname=Dinesh, getrollno()=104, getstudentid()=4, getstudname()=Dinesh,
getClass()=class Collection_fw.Student, hashCode()=918221580,
toString()=Collection_fw.Student@36baf30c]]
1       Pooja  101
2       Rutuja 102
3       Akshay 103
4       Dinesh 104
```