DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
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NAAC GRADE A+
Accredited University

Experiment – 6 (Medium)

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Branch: BE-CSE   **Section/Group: DL_905-A**

Semester: 6th   **Date of Performance: 17-02-2025**

Subject Name: PBLJ   **Subject Code: 22CSH-359**

1. **Aim**: Create a program to collect and store all the cards to assist the users in finding all the cards in a given symbol using Collection interface.

2. **Code:**

```java
import java.io.*;

class Student implements Serializable {
    private static final long serialVersionUID = 1L;
    private int id;
    private String name;
    private double gpa;

    public Student(int id, String name, double gpa) {
        this.id = id;
        this.name = name;
        this.gpa = gpa;
    }

    public int getId() {
        return id;
    }
}
```

```java
    public String getName() {

        return name;

    }


    public double getGpa() {

        return gpa;

    }

}


public class Medium {

    public static void main(String[] args) {

        Student student = new Student(1, "Shivam Sharma", 6.75);

        String filename = "student.ser";


        try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream(filename))) {

            oos.writeObject(student);

        } catch (FileNotFoundException e) {

            System.err.println("File not found: " + e.getMessage());

        } catch (IOException e) {

            System.err.println("IO Exception: " + e.getMessage());

        }


        try (ObjectInputStream ois = new ObjectInputStream(new FileInputStream(filename))) {

            Student deserializedStudent = (Student) ois.readObject();

            System.out.println("Student ID: " + deserializedStudent.getId());

            System.out.println("Student Name: " + deserializedStudent.getName());

            System.out.println("Student GPA: " + deserializedStudent.getGpa());

        } catch (FileNotFoundException e) {
```

```
        System.err.println("File not found: " + e.getMessage());

    } catch (IOException e) {

        System.err.println("IO Exception: " + e.getMessage());

    } catch (ClassNotFoundException e) {

        System.err.println("Class not found: " + e.getMessage());

    }

 }
```

3. **Output:**

```
● PS D:\Semester 6> cd "D:\Semester 6\Java (Github)\Expt 5"
● PS D:\Semester 6\Java (Github)\Expt 5> java Medium
  Student ID: 1
  Student Name: Shivam Sharma
  Student GPA: 6.75
✧⋄ PS D:\Semester 6\Java (Github)\Expt 5> █
```

(Output 1)