

Experiment – 5 (Medium)

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Branch: BE-CSE

Section/Group: DL_905-A

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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:

```
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;  
    }  
}
```

```
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)



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