



# Experiment 3.1

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**Branch: CSE** 

**Semester: 3rd** 

Subject Name: Java Program Lab

**UID:20BCS1812** 

Section/Group:709A

Date of Performance: 29/10/2021

**Subject Code:20CSP-219** 

1) Aim/Overview of the practical:

Write a program to read and write an object to file.

2) Task to be done/ Which logistics used:

To write a program to read and write an object to file.

3) Algorithm/Flowchart (For programming based labs):







#### 4) Steps for experiment/practical/Code:

#### Java Object:

```
package com.company;
import java.io.Serializable;

public class Student implements Serializable{
    private static final long serialVersionUID=11;
    int id;
    String name;
    public Student(int id,String name){
        this.id = id;
        this.name = name;
    }
}
```

## Reading and writing objects in Java:

```
package com.company;
import java.io.*;

public class Serialize {
    public static void main(String[] args) {
        try{
            Student s1 = new Student(id: 7, name: "MS Dhoni");
            Student s2 = new Student(id: 9, name: "Rajiv");
            FileOutputStream fout = new FileOutputStream(name: "/Users/rajivpaul/Student.txt");
            ObjectOutputStream out = new ObjectOutputStream(fout);
            out.writeObject(s1);
            out.writeObject(s2);

            out.flush();
            out.close();
            System.out.println("Success");
        }catch(Exception e){
                System.out.println(e);
            }
        }
}
```







```
package com.company;
import java.io.FileInputStream;
import java.io.ObjectInputStream;

public class ObjectRead {
    public static void main(String[] args) {
        try{
            FileInputStream fin = new FileInputStream( name: "/Users/rajivpaul/Student.txt");
            ObjectInputStream oin = new ObjectInputStream(fin);
            Student so1 = (Student)oin.readObject();
            Student so2 = (Student)oin.readObject();
            oin.close();
            fin.close();
            System.out.println("Student Record1: "+so1.id+" "+so1.name);
            System.out.println("Student Record2: "+so2.id+" "+so2.name);
        }
    }
}
catch (Exception e){
        System.out.println(e);
    }
}
```

#### 5. Observations/Discussions/ Complexity Analysis:

#### 6. Result/Output/Writing Summary:

Student Record1: 7 MS Dhoni

Student Record2: 9 Rajiv







## **Learning outcomes (What I have learnt):**

- 1. Learnt about java programming language.
- 2. Learnt about how to read and write file with object.
- **3.**
- 4.
- **5.**





# **Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

