

```
import java.io.*;
```

```
class Student implements Serializable {
```

```
    private static final long serialVersionUID = 1L;
```

```
    int id;
```

```
    String name;
```

```
    transient String password;
```

```
    Student(int id, String name, String password) {
```

```
        this.id = id;
```

```
        this.name = name;
```

```
        this.password = password;
```

```
    }
```

```
    void display() {
```

```
        System.out.println("ID: " + id);
```

```
        System.out.println("Name: " + name);
```

```
        System.out.println("Password: " + password);
```

```
    }
```

```
}
```

```
public class Task12Serialization {
```

```
    public static void main(String[] args) {
```

```
        try {
```

```
            Student s1 = new Student(101, "Shubhangi", "abc123");
```

```
            ObjectOutputStream oos =
```

```
                new ObjectOutputStream(new FileOutputStream("student.ser"));
```

```
oos.writeObject(s1);

oos.close();

System.out.println("Object Serialized Successfully");

} catch (IOException e) {
    e.printStackTrace();
}

try {
    ObjectInputStream ois =
        new ObjectInputStream(new FileInputStream("student.ser"));
    Student s2 = (Student) ois.readObject();
    ois.close();

    System.out.println("\nAfter Deserialization:");
    s2.display();

} catch (ClassNotFoundException e) {
    System.out.println("Class not found");
} catch (IOException e) {
    e.printStackTrace();
}
}
```

```
Windows PowerShell
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PS C:\Users\OMSAI> cd Downloads
PS C:\Users\OMSAI\Downloads> javac Task12Serialization.java
PS C:\Users\OMSAI\Downloads> java Task12Serialization
Object Serialized Successfully

After Deserialization:
ID: 101
Name: Shubhangi
Password: null
PS C:\Users\OMSAI\Downloads> |
```

