

```
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 X + v - o X

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

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> |
```

