

SERIALIZATION & DESERIALIZATION CODE

- Step 1: create a java class name Person implement serializable marker interface

```
➤ package test;

import java.io.Serializable;

public class Person implements Serializable {
    private String name;
    private int age;
    transient String userName;

    public String getName() {
        return name;
    }

    public int getAge() {
        return age;
    }

    public String getUserName() {
        return userName;
    }

    public Person(String name, int age, String userName) {
        this.name = name;
        this.age = age;
        this.userName = userName;
    }
}
```

- steps 2: create person impl class in that write serializable code

```
package test;

import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectOutputStream;

public class PersonImpl {
    public static void main(String[] args) {
        Person person = new Person("sahil", 20, "meraz");

        String fileName = "C:\\Users\\MERAZ\\Desktop\\serialize.ser";
        try {
            FileOutputStream fileOut = new FileOutputStream(fileName);
            ObjectOutputStream outputStream = new ObjectOutputStream(fileOut);
            outputStream.writeObject(person);
            outputStream.close();
        }
    }
}
```

```

        fileOut.close();
        System.out.println("serialized data is saved in file: "+fileName);
    }catch (IOException e){
        e.printStackTrace();
    }
}
}

```

➤ steps 3: add below this code for deserialization

```

➤ Person deserializedPerson = null;
try {
    FileInputStream fileInput= new FileInputStream(fileName);
    ObjectInputStream objectInput= new ObjectInputStream(fileInput);
    deserializedPerson=(Person) objectInput.readObject();
    objectInput.close();
    fileInput.close();
}catch (IOException e){
    e.printStackTrace();
}catch (ClassNotFoundException e){
    e.printStackTrace();
}

// Print deserialized object
System.out.println("Deserialized data:");
System.out.println("Name: " + deserializedPerson.getName());
System.out.println("Age: " + deserializedPerson.getAge());
}

```