Ex No: 1 Illustrate the concept of Serialization and Deserialization using File

AIM:

To implement the Serialization and Deserialization using File and demonstrated in a Java console application.

ALGORITHM:

Step 1: Creating a Student class and are serializing the object of the Student class.

Step 2: Serialization of an Object of type Student. A text file called f.txt is created with the help of the FileOutputStream class. Serializing the object by using the writeObject() method of ObjectOutputStream class.

Step 3: For deserializing the object by using the readObject() method of ObjectInputStream class.

PROGRAM:

Student.java

```
import java.io.Serializable;

public class Student implements Serializable {
     int rno;
     String name;
     float  fees;
 public Student(int id, String name, float fees) {
    this.id = id;
    this.name = name;
    this.fees = fees;
 }
public String toString() {
    return rno + "   " + name + "  " + fees + "\n";
}
```

Persist.java

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

```
class Persist{
 public static void main(String args[]){
  try{
        Student s1 =new Student(1,"ram");
        FileOutputStream fout=new FileOutputStream("d:\\f.txt");
        ObjectOutputStream out=new ObjectOutputStream(fout);
         out.writeObject(s1);
        out.flush();
        out.close();
        System.out.println("success");
  }catch(Exception e){
        System.out.println(e);
}
 }
}
```

Depersist.java

```
import java.io.*;
class Depersist {
 public static void main(String args[]){
       try{
            FileInputStream fin =  new FileInputStream("d:\\f.txt")
           ObjectInputStream in=new ObjectInputStream(fin);
           Student s=(Student)in.readObject();
           System.out.println(s);
          in.close();
  }catch(Exception e){
        System.out.println(e);
  }
 }
}
```

RESULT:

Thus the Serialization and Deserialization using File was implemented in a Java console application.