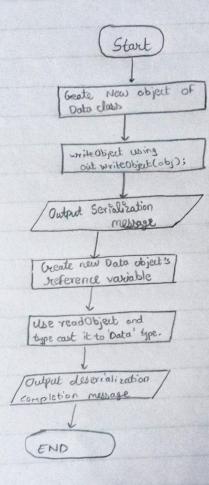
Aim: Greate, debug and Jun java programs brased on object Serialization.

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Aim: Create, debug and sun java programs based on Object Serialization

Theory:

What is Object berialization?

Object serialization is a mechanism provided in Java, using which an object can be represented as a sequence of bytes that includes the object's data as well as information about the object's type and the type's of data stored in the object.

After a socialized object

has been written to a file, it can be need from a file and be descriptived, i.e. the type of information and bytes used to store the object can be be used to necreate the object in memory.

Most impressive is that the entire process of serialization is JUM independent, that is, an abject can be serialized and on one platform and can be describilized from a on a completely different platform.

The senalization and deservalization of objects is done through classes 'Object Input Stream' and 'Object Output Stream' are which are high level streams which contains the methods.

The method used to Serialize an object:

public Final write void writeObject (Object x) throws IDException

The method used to describbise an abject

public final Object ereadobject (object x) # throws IDException,
ClassNotFoundException.

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Code:

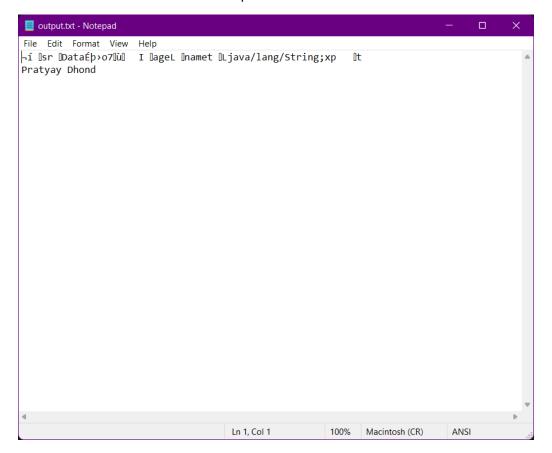
```
import java.io.*;
import java.io.Serializable;
class Data implements java.io.Serializable{
  public String name;
  public int age;
  public Data(String name, int age){
    this.name = name;
    this.age = age;
  }
class Practical19{
  public static void main(String[] args){
    Data obj = new Data("Pratyay Dhond",18);
    String filename = "output.txt";
    try{
      FileOutputStream file = new FileOutputStream(filename);
      ObjectOutputStream out = new ObjectOutputStream(file);
      out.writeObject(obj);
      out.close();
      file.close();
    System.out.println("Object Serialization Completed Successfully");
    }catch(Exception e){
          System.out.println("Error : Object Serialization Failed");
          System.out.println("Error : " + e);
    try{
      FileInputStream file = new FileInputStream(filename);
      ObjectInputStream in = new ObjectInputStream(file);
      Data from_file = null;
      from_file = (Data) in.readObject();
      in.close();
      file.close();
      System.out.println("Object De-Serialization complete");
      System.out.println("Name " + from_file.name);
```

Output:

```
Command Prompt

D:\_3rdYrNotes\IT-3rd-year-notes\Java\19>java Practical19
Object Serialization Completed Successfully
Object De-Serialization complete
Name Pratyay Dhond
Age 18
D:\_3rdYrNotes\IT-3rd-year-notes\Java\19>
```

Output on terminal



Serialised data stored in file