## Pant10)

## Concept of Servalisation introduced with Inheritance

Parent Class In plements Sevalgeable, but Serializeable child class does not implement

class Animal implements Serializeables

int i=103

log di= new log ();

Serialize (d1);

class Dog extends Animal {

înt j=20j

Conclusion: If parent class is fernializeable, automatically child class

becomes Sexualizeable.

In Java Greneric Servelet Class is sevializeable, all its child are as well.

(Pant 11)

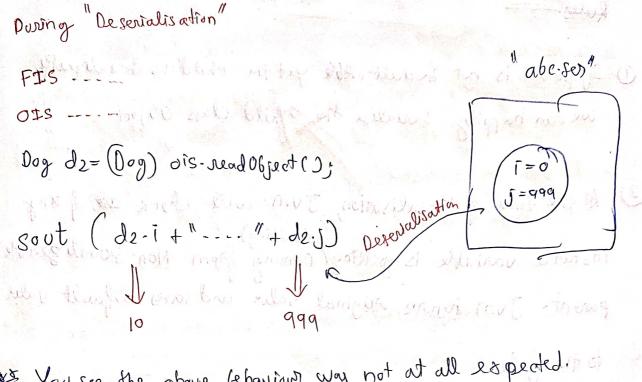
(Concept of Inheritance W.7. t Serialisation)

outresidence , well being and today. (ave I): Parent Class does not implement ferralizeable, but child class implements Serializeable. of their transmissible was

The application to What happened then words now the west of

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Lets See an Example to understand Class Animal } int i=10; dive sur den 3 Mughinian Trumpy 1 ton Bob Class Dog extends Animal implements ferializeables int j= 20; of sol can off for psvm () throws Exception { Dog di = new Dog (); -> d1-1 = 888; dij= 999; oos. unite Object (di). "abc-ser" Q) What happened during Serialisation? It During Serialisation Jum Internally Checks which instance variables one not part of Serializeable. In our case i = 10; 7 (From Animal which does not implement fertalizeable) So défault value is stanted 10 for ît 1-e, c.



Why did (d2-i=10) It should not happen.

During Deservalisation. Jum das 3 Hungs

- (1. Identification of instance members) Check allacheinstance variables are not part of Serializeable
- 2. Executions of instance variables, assignments & variably.

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3- Execution of default construction.

j=10.

TVM will call the No args default

this is called (instance control-flow) onstructor of the parent or class
which does not implement ferializeable.

Jum writes à l'instance\_control\_flow for classes which are not implementating ferralizeable

- (D. If parent is not Serialize Able yet the child is Serializeable, we can happily Serialize the Child class Object
- 2) At the time of Serialisation, Jum will check at if any (interiting) instance variable is gettings coming from Non-serializeable parent. Jum ignores original value and saves default value to the file.
- 3 At the time of de-Serialisation, JVM will check if any parent is non-serializeable or not. Then JVM will execute instance control flow and share its instance variable values with carent object.
- 9. Inside any of the Four Classes parent Classes which are non-serializedly if we see that they don't have a proper No args default constructor, it will throw RE: Invalid Class Exception (Runtime Exception)

committee as a definition of my time and

a solution of the same

