Exterisation  Externalisation is another way to achive serialization.
Broblems with Scrialization.
0.00 G
tere us implement 'Externalizable' interpace which has implemented 'Socializable' interpace. Externalizable' is not Markon Interpace.
implemented Socializable interface.
Exemplicable is not Markon Interface

Program (Extern Example Java)

import java.io.\*;

class Car implements Extendizable.

static intege;

String name;

1/ medatory public no-arg Constructor public dans (arc)?
Sop ("default"); Car (String n, inty) & name =n; 11 mandatery write External method public void write External Cobsect Output throus TeExcep<sup>n</sup> Sop (" work External"); out-work Object (name); out-work Int (gear); out writernt (age); Meindatery viced External method.

public void read External Cobject Input in

throws To Except, Casslot Found Except Sop ("read External");

ramo = (strung) in readobjed();

year = in read Int();

cye = in read Int(); Public String to Stringe) netcon "Name:"+namo+"\n"+"vegin>
+year+"\n"+"age:"+age) Public class ExternExample ( DDAM(). il create a car Object.
Car car = new Car ("Mitsubishi", 2009);
Car new Car = null; Il socialize the car FileOutputStream Le= new FileOutputStraam L" (") Object 0/p Stream DO = new Object 0/p Stream (je);

Do. write Object (car); Do. Hush (); > carten (Except e) (Sople); Il de resialize the car. tory I FileInputStoneam fi = now FileIPStoneam (#tmp)
Object IPStoneam gri = new Object IPStoneam (fi);
newCar = (Car) si readObject(); caten (Excepte) & Sople); Sop ("The Original car is");
Sop ("The new car is");
Sup (new Car); In this example, class Car implements Externalizable interface which means that car object is ready for seriali-

This class has two public methods
-"would External" and "gread External". Unlike Scrializable intorface which will berialize all the variables in the object with just by implementing the interface hore year have to capicity mention what feilds as variable you have want to revictize and the seme is done in "write Enternal" and "nead-External" methods. So in the a ExternExample" class when you write "cas" object to the Output Stoream, the "write -External" mothed is called and the data is persived the same applies to "gread External" method in the car object i.e., when you need the 'Car' object from the obj Object Triput Stream, "need External" method is called. 2 Also the information about class description is added to the Arem which includes the descript of all the socializable superclasses, the description of the clars and the instance data arrociated with sparific instance of the class loss loss

Performance issue 3. Now when an Externalizable object is preconstancted, an instance is Created first using the public ne-argy constructor, then "read External" is called. 4. When an object that implements
Servalizable object interpree, is revializeol or de-revialized no constructor
of the Object is called and hence any
any initialization which is done in
the constructor can't ze done. 5. Externalization is nothing but Servali-Zation but by Soi implementing Externalizable interferce to persont and grestere the object to externalize you Extendiable intexace that extends Serializable interface. Here only the identity of the days is circitlen in the revialization stream and it is the nesponsibility of the days

to save and restore the Contents of its means you will have complete control ox what te socialise and not to reviolize. But to with socialization the identity of all the clarrer, its superclasses, instânce Variables and then the contents for there items is written to the serialization Stream. But to extoralize an object, you need a pe dépault public constructes

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AL -	0-March-2018
	6- Limitations of Socialization:
1	(i) File Size is very high
	the state of the s
	1) 6. Constant attendent which is not execute becoze we get "nell" in place of transient attendates.
	not effective sees at get new in
	place of trivinera commences.
	XXXXX
	7. One thing that you cando with Externali-
	- zation is that you can stone extra
	information into objects like STATIC
CS-NE.	variables and transient variables
	or you can add more information if you
	have any buriness need.
	a T touch to allow to to automic
	8. Externalization allows you to customize how serialization is done-By impleme-
- /	- nting externalization you are contro-
	-ling what get socialized (and what
	doesnot as versus defautt serial ation
	concre all non-toanment attendes
	gets socialized.