

(Part 4)

We can serialize multiple objects into a single file.

But the catch is, when we deserialize we have to do it in the order we serialized the objects.

```
Dog d1 = new Dog();
```

```
Cat c1 = new Cat();
```

```
Rat r1 = new Rat();
```

(Serialisation)

```
FOS fos = new FOS("abc.ser");  
OOS oos = new OOS(fos);  
oos.writeObject(d1);  
oos.writeObject(c1);  
oos.writeObject(r1);
```

(Deserialisation)

```
FIS fis = new FIS("abc.ser");  
OIS ois = new OIS(fis);  
Dog d2 = (Dog) ois.readObject();  
Cat c2 = (Cat) ois.readObject();  
Rat r2 = (Rat) ois.readObject();
```



(Order of serialisation and deserialisation should match)

Ans Lets say that we don't know order of the Objects in which they are serialized we can simply read as Object reference.

```
Object o = ois.readObject();
```

```
if (o instanceof Dog)
```