

(Part 5)

## Object Graphs

Let's say we have nesting of classes.

Imp, All class should implement Serializable.

```
class Dog { implements Serializable
```

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

```
}
```

```
class Cat { implements Serializable
```

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

```
}
```

```
class Rat { implements Serializable
```

```
    int j = 20;
```

```
}
```

```
class SerializeDemo {
```

```
    psvm() {
```

```
        FileOutputStream fos = new
```

```
        FileOutputStream("abc.ser")
```

```
        ObjectOutputStream oos = new
```

```
        ObjectOutputStream(fos);
```

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

```
        oos.writeObject(d1);
```

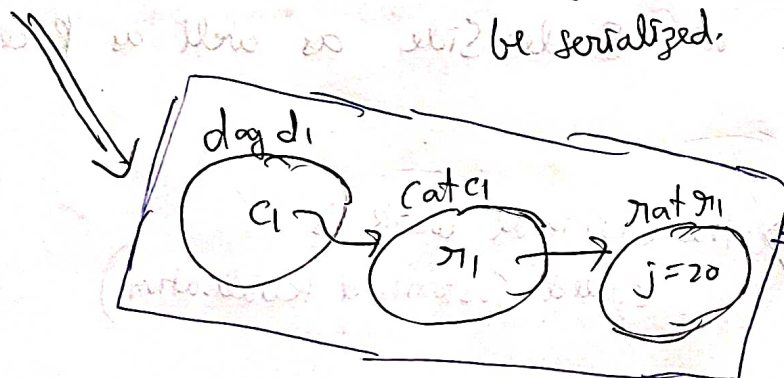
```
    } // "abc.ser"
```

```
FileInputStream fis = new FileInputStream("abc.ser");
```

```
ObjectInputStream ois = new ObjectInputStream(fis);
```

```
Dog d2 = (Dog) ois.readObject();
```

This thing will be serialized.



This is called Object Graph.

This Object Graph will be returned