

Singleton class

- allowing only one object of class to be created

- class Abc

```
{ static Abc obj = new Abc();  
  private Abc()  
  {  
  }  
  public static Abc getInstance()  
  {  
    return obj;  
  }  
}
```

Abc obj1 = Abc.getInstance();

Abc obj2 = Abc.getInstance();

private method - ^{can} only ~~be~~ be called inside of the class
in which it is defined.

- Ball redBall = new Ball("red");

redBall is a reference to the object created
by new Ball("red") ~~statement~~.

- method should ^{be} of class type to return the object

- objects are passed by call by reference

- changes to the object inside the method do reflect
the object used as an argument.

file a = new file (" ");

↑

file object

↑

passing passing in a
string the name of
a file, a string
or another
file object

⑨

java.io

- input and output to files, network streams
- Stream - series of data
- Java IO streams - flows of data that a user can either read from or write to.
- Stream has no concept of indexing the read or write data.

Standard streams →

- Standard Input - keyboard is utilized as standard input stream and described as System.in
- Standard Output - computer screen is used for standard output stream and described as System.out

⑩

java.io.Writer

- abstract superclass
- represents a stream of characters
- it is not useful by itself
- its subclasses can be used to write data

Writer output = new FileWriter();

Write is an abstract class. So, we cannot create its object.

(Go through programiz.com)

OutputStreamWriter converts its characters
into bytes.