JAVA.IO.BUFFEREDINPUTSTREAM CLASS

Introduction

The **Java.io.BufferedInputStream** class adds functionality to another input stream, the ability to buffer the input and to support the mark and reset methods. Following are the important points about BufferedInputStream:

- When the BufferedInputStream is created, an internal buffer array is created.
- As bytes from the stream are read or skipped, the internal buffer is refilled as necessary from the contained input stream, many bytes at a time.

Class declaration

Following is the declaration for **Java.io.BufferedInputStream** class:

```
public class BufferedInputStream
   extends FilterInputStream
```

Field

Following are the fields for **Java.io.BufferedInputStream** class:

- **protected byte[] buf** -- This is the internal buffer array where the data is stored.
- **protected int count** -- This is the index one greater than the index of the last valid byte in the buffer.
- **protected int marklimit** -- This is the maximum read ahead allowed after a call to the mark method before subsequent calls to the reset method fail.
- **protected int markpos** -- This is the value of the pos field at the time the last mark method was called.
- **protected int pos** -- This is the current position in the buffer.
- **protected InputStream in** -- This is the input stream to be filtered.

Class constructors

S.N.	Constructor & Description
1	**BufferedInputStream***InputStreamin* This creates a BufferedInputStream and saves its argument, the input stream in, for later use.
2	**BufferedInputStream***InputStreamin, intsize* This creates a BufferedInputStream with the specified buffer size, and saves its argument, the input stream in, for later use.

Class methods

S.N.	Method & Description
1	int available This method returns an estimate of the number of bytes that can be read *orskippedover* from this input stream without blocking by the next invocation of a method for this input stream.
2	void close This method closes this input stream and releases any system resources associated with the stream.
3	void mark*intreadlimit* This method see the general contract of the mark method of InputStream.
4	boolean markSupported This method tests if this input stream supports the mark and reset methods.
5	int read This method reads the next byte of data from the input stream.
6	int read*byte[]b, intoff, intlen* This method reads bytes from this byte-input stream into the specified byte array, starting at the given offset.
7	void reset This method repositions this stream to the position at the time the mark method was last called on this input stream.
8	long skip*longn* This method skips over and discards n bytes of data from this input stream.

Methods inherited

This class inherits methods from the following classes:

- Java.io.FilterInputStream
- Java.io.Object