JAVA.IO.RANDOMACCESSFILE CLASS

Introduction

The **Java.io.RandomAccessFile** class file behaves like a large array of bytes stored in the file system.Instances of this class support both reading and writing to a random access file.

Class declaration

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

```
public class RandomAccessFile
  extends Object
    implements DataOutput, DataInput, Closeable
```

Class constructors

S.N.	Constructor & Description
1	**RandomAccessFile***Filefile, Stringmode* This creates a random access file stream to read from, and optionally to write to, the file specified by the File argument.
2	**RandomAccessFile***Filefile, Stringmode* This creates a random access file stream to read from, and optionally to write to, a file with the specified name.

Class methods

S.N.	Method & Description
1	void close This method Closes this random access file stream and releases any system resources associated with the stream.
2	FileChannel getChannel This method returns the unique FileChannel object associated with this file.
3	FileDescriptor getFD This method returns the opaque file descriptor object associated with this stream.
4	long getFilePointer This method returns the current offset in this file.

5

long length

This method returns the length of this file.

6

int read

This method reads a byte of data from this file.

7

int read*byte*[]*b*

This method reads up to *b.length* bytes of data from this file into an array of bytes.

8

int read*byte*[]*b*, *intoff*, *intlen*

This method reads up to *len* bytes of data from this file into an array of bytes.

9

boolean readBoolean

This method reads a boolean from this file.

10

byte readByte

This method reads a signed eight-bit value from this file.

11

char readChar

This method reads a character from this file.

12

double readDouble

This method reads a double from this file.

13

float readFloat

This method reads a float from this file.

14

void readFully*byte*[]*b*

This method reads b.length bytes from this file into the byte array, starting at the current file pointer.

15

void readFully*byte*[]*b*, *intoff*, *intlen*

This method reads exactly len bytes from this file into the byte array, starting at the current file pointer.

16

int readInt

This method reads a signed 32-bit integer from this file.

17

String readLine

This method reads the next line of text from this file.

18

long readLong

This method reads a signed 64-bit integer from this file.

19

short readShort

This method reads a signed 16-bit number from this file.

20

int readUnsignedByte

This method reads an unsigned eight-bit number from this file.

21

int readUnsignedShort

This method reads an unsigned 16-bit number from this file.

22

String readUTF

This method reads in a string from this file.

23

void seek*longpos*

This method sets the file-pointer offset, measured from the beginning of this file, at which the next read or write occurs.

24

void setLength*longnewLength*

This method sets the length of this file.

25

int skipBytes*intn*

This method attempts to skip over n bytes of input discarding the skipped bytes.

26

void write*byte[]b*

This method writes b.length bytes from the specified byte array to this file, starting at the current file pointer.

27

void write*byte[]b, intoff, intlen*

This method writes len bytes from the specified byte array starting at offset off to this file.

28

void write*intb*

This method writes the specified byte to this file.

29

void writeBoolean*booleanv*

This method writes a boolean to the file as a one-byte value.

30

void writeByte*intv*

This method writes a byte to the file as a one-byte value.

31

void writeBytes*Strings*

This method writes the string to the file as a sequence of bytes.

32

void writeChar*intv*

This method writes a char to the file as a two-byte value, high byte first.

33

void writeChars*Strings*

This method writes a string to the file as a sequence of characters.

34

void writeDouble*doublev*

This method converts the double argument to a long using the doubleToLongBits method in class Double, and then writes that long value to the file as an eight-byte quantity, high byte first.

35

void writeFloat*floatv*

This method converts the float argument to an int using the floatToIntBits method in class Float, and then writes that int value to the file as a four-byte quantity, high byte first.

36

void writeInt*intv*

This method writes an int to the file as four bytes, high byte first.

37

void writeLong*longv*

This method writes a long to the file as eight bytes, high byte first.

38

void writeShort*intv*

This method writes a short to the file as two bytes, high byte first.

39

void writeUTF*Stringstr*

This method writes a string to the file using modified UTF-8 encoding in a machine-independent manner.

Methods inherited

This class inherits methods from the following classes:

- Java.io.Object