Advantage:

Random access file allows us to read and write data at any point of the file. We use a file pointer to keep track of the location.

Disadvantage:

Usage:

Syntax:

RandomAccessFile file= new RandomAccessFile(File file, String mode);

Constructor:

Source(https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html)

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| **[RandomAccessFile](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "RandomAccessFile(java.io.File, java.lang.String))**([**File**](https://docs.oracle.com/javase/7/docs/api/java/io/File.html) file, [**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) mode)  Creates a random access file stream to read from, and optionally to write to, the file specified by the [**File**](https://docs.oracle.com/javase/7/docs/api/java/io/File.html) argument. |
| **[RandomAccessFile](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "RandomAccessFile(java.lang.String, java.lang.String))**([**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) name, [**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) mode)  Creates a random access file stream to read from, and optionally to write to, a file with the specified name. |

All Methods:

Source(https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html)

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| void | **[close](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "close())**()  Closes this random access file stream and releases any system resources associated with the stream. |
| [**FileChannel**](https://docs.oracle.com/javase/7/docs/api/java/nio/channels/FileChannel.html) | **[getChannel](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "getChannel())**()  Returns the unique [**FileChannel**](https://docs.oracle.com/javase/7/docs/api/java/nio/channels/FileChannel.html) object associated with this file. |
| [**FileDescriptor**](https://docs.oracle.com/javase/7/docs/api/java/io/FileDescriptor.html) | **[getFD](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "getFD())**()  Returns the opaque file descriptor object associated with this stream. |
| long | **[getFilePointer](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "getFilePointer())**()  Returns the current offset in this file. |
| long | **[length](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "length())**()  Returns the length of this file. |
| int | **[read](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "read())**()  Reads a byte of data from this file. |
| int | **[read](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "read(byte[]))**(byte[] b)  Reads up to b.length bytes of data from this file into an array of bytes. |
| int | **[read](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "read(byte[], int, int))**(byte[] b, int off, int len)  Reads up to len bytes of data from this file into an array of bytes. |
| boolean | **[readBoolean](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readBoolean())**()  Reads a boolean from this file. |
| byte | **[readByte](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readByte())**()  Reads a signed eight-bit value from this file. |
| char | **[readChar](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readChar())**()  Reads a character from this file. |
| double | **[readDouble](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readDouble())**()  Reads a double from this file. |
| float | **[readFloat](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readFloat())**()  Reads a float from this file. |
| void | **[readFully](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readFully(byte[]))**(byte[] b)  Reads b.length bytes from this file into the byte array, starting at the current file pointer. |
| void | **[readFully](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readFully(byte[], int, int))**(byte[] b, int off, int len)  Reads exactly len bytes from this file into the byte array, starting at the current file pointer. |
| int | **[readInt](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readInt())**()  Reads a signed 32-bit integer from this file. |
| [**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) | **[readLine](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readLine())**()  Reads the next line of text from this file. |
| long | **[readLong](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readLong())**()  Reads a signed 64-bit integer from this file. |
| short | **[readShort](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readShort())**()  Reads a signed 16-bit number from this file. |
| int | **[readUnsignedByte](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readUnsignedByte())**()  Reads an unsigned eight-bit number from this file. |
| int | **[readUnsignedShort](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readUnsignedShort())**()  Reads an unsigned 16-bit number from this file. |
| [**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) | **[readUTF](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "readUTF())**()  Reads in a string from this file. |
| void | **[seek](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "seek(long))**(long pos)  Sets the file-pointer offset, measured from the beginning of this file, at which the next read or write occurs. |
| void | **[setLength](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "setLength(long))**(long newLength)  Sets the length of this file. |
| int | **[skipBytes](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "skipBytes(int))**(int n)  Attempts to skip over n bytes of input discarding the skipped bytes. |
| void | **[write](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "write(byte[]))**(byte[] b)  Writes b.length bytes from the specified byte array to this file, starting at the current file pointer. |
| void | **[write](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "write(byte[], int, int))**(byte[] b, int off, int len)  Writes len bytes from the specified byte array starting at offset off to this file. |
| void | **[write](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "write(int))**(int b)  Writes the specified byte to this file. |
| void | **[writeBoolean](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeBoolean(boolean))**(boolean v)  Writes a boolean to the file as a one-byte value. |
| void | **[writeByte](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeByte(int))**(int v)  Writes a byte to the file as a one-byte value. |
| void | **[writeBytes](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeBytes(java.lang.String))**([**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) s)  Writes the string to the file as a sequence of bytes. |
| void | **[writeChar](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeChar(int))**(int v)  Writes a char to the file as a two-byte value, high byte first. |
| void | **[writeChars](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeChars(java.lang.String))**([**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) s)  Writes a string to the file as a sequence of characters. |
| void | **[writeDouble](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeDouble(double))**(double v)  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. |
| void | **[writeFloat](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeFloat(float))**(float v)  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. |
| void | **[writeInt](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeInt(int))**(int v)  Writes an int to the file as four bytes, high byte first. |
| void | **[writeLong](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeLong(long))**(long v)  Writes a long to the file as eight bytes, high byte first. |
| void | **[writeShort](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeShort(int))**(int v)  Writes a short to the file as two bytes, high byte first. |
| void | **[writeUTF](https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html" \l "writeUTF(java.lang.String))**([**String**](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html) str)  Writes a string to the file using **[modified UTF-8](https://docs.oracle.com/javase/7/docs/api/java/io/DataInput.html" \l "modified-utf-8)** encoding in a machine-independent manner. |