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Workshop 5

Course: JAC444 - 4th

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This assignment represents my own work in accordance with Seneca Academic Policy.

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**Advantages:**

- the random access files are better solution for the quickly reading from file rather than using sequential files.

- it is quicker to search in large data file because it will directly jump to targeted address where searched data is located.

**Disadvantages:**

- It is not transportable.

- it is also consume disk space for long time because space is allocated for the longest possible field.

**Usage:**

it allows data to read from and write to any specified location in the file.

**Syntax:**

RandomAccessFile raf = new RandomAccessFile("file.txt", "rw");

**Constructors:**

There are two constructor we can use for constructor:

1) RandomAccessFile(File file, String mode)

it reads data from created random access file and also can write to the specified file argument.

2) RandomAccessFile(String name, String mode)

it reads from random access file and also can write to a file with providing specified name.

**Methods:**

There are many methods like

close() : it will close the random access file.

read() : reads a byte of data from the file.

readChar() : reads character from file.

**References:**

http://www.manmrk.net/tutorials/basic/PowerBASIC/PBW10/html/Random\_Access\_Files.html

https://www.scientecheasy.com/2021/06/randomaccessfile-in-java.html/#:~:text=RandomAccessFile%20in%20Java%20is%20a,writing%20data%20with%20random%20access.

https://docs.oracle.com/javase/7/docs/api/java/io/RandomAccessFile.html#:~:text=Constructor%20Summary&text=Creates%20a%20random%20access%20file,specified%20by%20the%20File%20argument.&text=name%2C%20String%20mode)-,Creates%20a%20random%20access%20file%20stream%20to%20read%20from%2C%20and,file%20with%20the%20specified%20name.