

Digital container:

Create a digital container (C# or Java), which can encode/decode image or sound files using an internal structure defined by you. Submit an archive with the project and present the structure in a word document.

A digital container is a specialized software that adds a new header on top of the existing ones which are part of the media file itself. Just like the case of an image which has its own headers, this new header must be appended before or after the original file. You must decide the structure of this header, what data must include so that you should be able to decode this new type of file. You can use encryption also but it's not mandatory. There are different ways in which you can manipulate such files inside a digital container. Study the problem and come up with a viable solution for it to work.

You must implement both the encoding and decoding process to be able to test an image or a sound file. The important aspect is that if you take an initial file and encode it with your digital container and save the resulting file, you won't be able to open that file with any other type of software except your own digital container which will know how to decode and extract the media file.