Code 1:

\* Open for extension closed for modification:

In the future, if we want to add an Html encoder, we will have to change the encodeToFormat function in the generic encoder class and add another else if to support the new format, we also have to change the prepareData function, each time we want to add a new encoder we have to modify the generic encoder class

Solution: create an encoder interface having a single function "encode", for each encoding format we create an implementation of that interface in which we define the encoding mechanism and we prepare the data.

Code 2.a:

\* Liskov substitution:

The DropboxFile class is implementing a function that it doesn't need

Solution: create a client specific interface

Code 2.b:

\* LinuxFile is not implementing the handle function