In this assignment, I chose to use the grounded theory that combines InVivo coding and open coding as my coding strategy in this assignment because InVivo coding can preserve the original meaning in codes, which is critical for coders who are not very professional in cameras.

I found that, unlike literature, technical documents are usually tersely detailed, which means there are more key point stones that are needed to be coded while they are well portrayed with less redundant words, so those documents require delicate skills in coding in order to compress an already precise sentence into a shorter one and to exclude the relatively trivial information, otherwise codes become very hard to be interpreted back in this case. In this assignment, the document introduces components of the camera which can be coded briefly and also the operation procedures which require more specific codes. Thus, I started preliminary coding referring to the examples in background reading materials, afterward, I found that the preliminary coding merely provides me an overview of the document, and it is inadequate to establish effective notations to construct state machines due to missing information.

Preliminary coding document can be found here: <https://github.com/HengZ121/App.-of-NLP-ML-in-SE/blob/master/assignment%201/Preliminary%20Codes.docx>

By final coding,

Also, the content in technical documents is not always in time order nor sequential steps, thus it may require longer codes to declare prerequisites; for examples: in literature coding, we can always assume the previous code is a potential prerequisite (chased by dog, bite by dog), but in technical document, we may have to declare prerequisites in code to remain precise(*load file* and counter counts up, shutter makes sound when *counter stops*).