# Project 1: LZW Compression

LZW is an adaptive compression algorithm works efficiently with large and redundant dataset. Important examples of LZW compression are the GIF image format served from websites and the TIFF image format.

Encoding and Decoding algorithms are implemented in this project.

These programs can be found in following paths:

Encoding - Dir\algos\project1\Encoder.java

Decoding - Dir\algos\project1\Decoder.java

Input files:

Input file for Encoding: Dir\algos\documents\Input1.txt

Input file for Decoding: Dir\algos\documents\Input1.lzw

Output files:

Output file of Encoding: Dir\algos\documents\Input1.lzw

Output file of Decoding: Dir\algos\documents\Input1\_decoded.txt

Execution (Encoding):

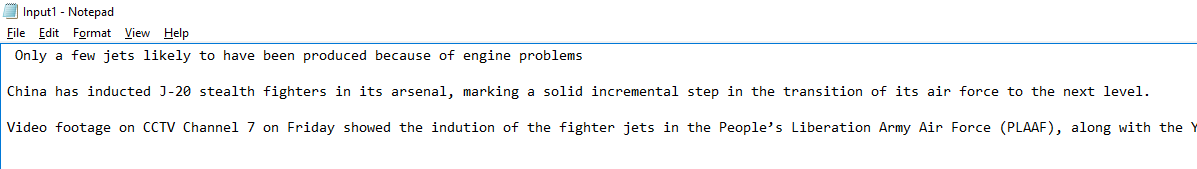
Compling-

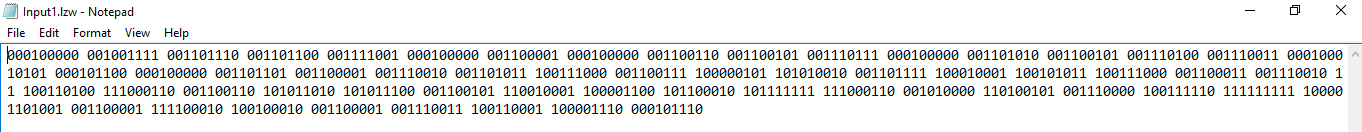
* cd Dir\algos
* javac project1.Encoder.java

Execution-

🡪 java project1\_Encoder Dir\algos\documents\Input1.txt bitlength (ideal length >9)







Execution (Decoding):

Compling-

* cd Dir\algos
* javac project1.Decoder.java

Execution-

🡪 java project1\_Decoder Dir\algos\documents\Input1.lzw bitlength (ideal length >9)

