ASSIGNMENT #6:

Suppose, you are given the following grammar and the input string *abcd*:

S -> aXD

 $X \rightarrow YZ$

 $Y \rightarrow b$

y -> ε

 $Z \rightarrow cX$

Z -> ε

- ☐ You are required to perform the following tasks manually:
 - 1. Find the FIRST and FOLLOW sets of each of the non-terminals.
 - 2. Construct the predictive parsing table for LL(1) method.
 - 3. Demonstrate the moves of the LL(1) parser on the given input.
 - 4. Construct the LR(0) automaton for the grammar.
 - 5. Construct the parsing table for LR(1) parsing with the grammar.
 - 6. Demonstrate the moves of the LR(1) parser on the given input.