Preparation Activity PA08 – Context-Free Grammars (CFGs) and Pushdown Automata (PDAs)

1. Consider the following grammar G:

   S → ASB
   A → aAS | a |ε
   B → SbS | A | bb

   a) Draw a PDA that accepts the strings of L(G) by empty stack. Use the method to convert CFGs in PDAs.
   b) Is the PDA deterministic or non-deterministic? Justify your answer.
   c) Transform the PDA into a PDA that accepts the strings of L(G) by final state.