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- 1. In a language, each sentence is a string starting with a capital letter followed by two or more small letters and ending with three or more digits. Example sentences are Abc001, Zyxw9876 etc.
- a) Write a BNF grammar for the language.

$$\rightarrow$$
 $\rightarrow A|B|C|D|E|F ----- X|Y|Z$
 $\rightarrow <+'>$
 $<+'> \rightarrow <+'>|\epsilon|$
 $\rightarrow a|b|c|d|e|f|g -----x|y|z$
 \rightarrow
 $\rightarrow 0|1|2|3|4|5|6|7|8|9$

Terminal =
$$\{A, B ---- x, y, z, a, b, c ---- x, y, z, 0, 1, 2, ----9\}$$

Variables = $\{S', C', A', H', B', D', E', F'\}$