## FORMAL LANGUAGES AND AUTOMATA Homework-5

For the language  $L = \{a^i b^{i+j} a^j \mid i > 0, j \ge 0 \}$ ,

- a) Write the grammar production rules.
- **b)** Design a PDA for this language.
- c) Show how the strings aabbba and aaabbb are accepted by the PDA you designed.

IMPORTANT: You must do this homework by hand and submit it using the box in the secreteriat.