



Student Name: ibrar Babar **Roll No:** P190104 **Sec:** 5B

Problem Set : Implement 01

Semester: FALL 2021

Date Set : Monday December 20, 2021

Due Date : Friday Dec.24, 2021

Course : CS301 Theory of Automata

Instructor: Shakir

Language $\{a^n b^m a^n b^m \mid m, n \geq 1\}$

Descriptive Definition:

'n' number of A's and 'm' number of B's are followed by same 'n' number of A's and same 'm' number of B's. Where $n, m \geq 0$;

Words:

{abab, aabaab, abbabb, abbbabb, aaabbbbaabbbb, aaabbbbaabbbb,
aaaaabbbbbaaaaabbbb,aaaaabbbbbaaaaabbbb, aaaaaabbbbbaaaaaabbbb,
aaaaabbbbbaaaaaabbbb,
aaaaabbbbbaaaaaabbbb}