Overtion - 1:

Given Input == \$ a, b}

Language L = & aq, aaa, aab, boa, bob, -...}

All words that have "a" on the ord letter and "a" s the

3 dution:

Regular expression for the given is

The firste automata (fa) for given negular expression is

+ The automata starts with 10 "a" then it is processed to next state

* After first state et is moving to next state upon a, b

of In the fenal state et is accept any no of a's and b's

Transition Table:

		a 1	b -
_	90	9,	90
	91	9/2	V _a
+	9/3	9/a	9/2

Acceptable stings:

baa = 6 b a (a+b)(a+b)4

= b'aa Cvalid)

bab = 6 a (a+b) (a+b) +

= b' a(b) (valed)

aabaa = b* a (a+b) (a+b)*

= a a b(a+b)'(a+b)' (valed)

aab = 6 a (a+6) (a+6)4

= a (a+b) (a+b) (valed)

Inaled Stoings:

a = 6 a (a+b) (a+b) *

= a (Invalva)

P = P* O (0+P) (0+P)*

= b (Invalled)