Kennedy Road, Near R.T.O., Pune - 411 001. repition are as follows:

10 year of repetition for 128- bit Heys.

12 cycles of repetitions for 192- bit Keys.

14 cycles of repetitions for 256-bits Keys. Algorithm Description: 1. Hey Expansions-Rou using Rijndael's Key schedule. AES requires a separate 128 I-bit round key block for each round plus one

Kennedy Road, Near R.T.O., Pune - 411 001. Final Hourd (no mix column):-Sub Bytes ii) Shift Rows
iii) Add Round Heys. It is possible to speed up execution of this Mix lowers

step by transforming them into a sequence of table lookups.

This requires four 256- entry 32 bit tables, and utilizes

a total of four Kilobytes of memory - 1 kb for each table. A round can then be done with 16 table lookups and 12 32-bit exclusive-or operations, followed by four 32-bit exclusive-or operations in the Add Round Irely steps.

|              | A.I.S.S.M.S<br>INSTITUTE OF INFORMATION TECHNOLOGY<br>Kennedy Road, Near R.T.O., Pune - 411 001.   |
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|              | lonclusion:- Thus we used the AES algorithm technique to implement a program using the mentioned steps and procedure.  |
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