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IMPLEMENTATION OF RIPEMD ENCRYPTION FUNCTION

ALGORITHM

The RIPEMD algorithm is a family of hash functions that produce a fixed-size output from an input message of any length. The RIPEMD-160 variant produces a 160-bit output.

- Parse the input message into blocks of 512 bits.
- Initialize the state of the hash function to a fixed value.
- Process each block of the message using a compression function that updates the state.
- Append the padding bits to the last block of the message.
- Process the last block of the message using the compression function.
- Extract the output from the state.

WORKING PRINCIPLE

It is a sub-block of the RIPEMD-160 hash algorithm. The message is processed by compression function in blocks of 512 bits and passed through two streams of this sub-block by using 5 different versions in which the value of constant 'k' is also different.

EXECUTION

RIPEMD HASHING FUNCTION	
Unghing	
Hashing	
Enter a message : engineering	
The Digested message is: 16f2c34aa917be50ce5b9d4292225d555d7bf3f4	_
110 2192000 11020090 12 1 121200 1002110000000000	