Step 1:

The length of the message m must be equal to the length of the key.

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Step 2:

The secret key is XOR 'ed with ipad to produce OS1.

Where,

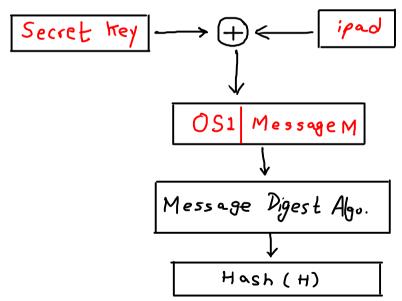
ipad = input pad = The String 0x36 repeated 64 times. 0S1= Output of Step1.

Step 3:

Append the message M to output of Step 2

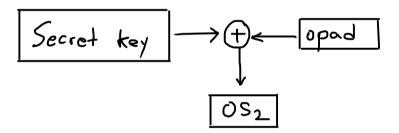
Step 4:

Any Message Digest (MD5 or SHA1) is applied on the output of Step 3. This will produce thr output hash.



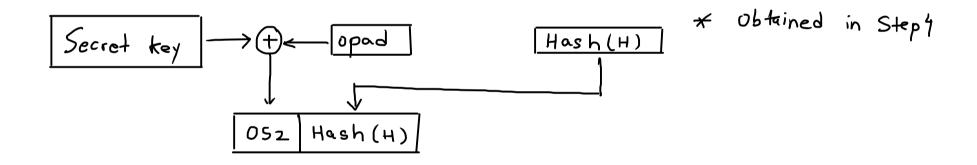
Step 5:

XOR the secret key K with opad to produce output variable called OS2.



Step 6:

Add Hash H with OS2 and appended with output of Step 5



Step 7:

Message Digest algorithm is applied on output of step 6 to generate final output called as HMAC.

