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Abstract	<p>This paper presents a new information hiding system, which compress the secret audio file(speech sound) using the two dimensional DCT (Discrete cosine Transform) then hides an audio file inside another audio file by using the LSB algorithm (Least significant Bit), which hides 4 bits in each hosted sample of the cover audio file). The first challenge of the system is to achieve a higher hiding ratio (hiding 4 bits in each hosted sample of the cover audio file) with minimum perceptible degradation in the cover file, since the level of distortion should be less than the permissible levels that could be detected by human auditory system, and the second challenging is retrieving the secret audio file as it was before compression with minimum loss of data making the decoded file very close to the original file.</p> <p>Key Words: Steganography, LSB, DCT, stego audio file'</p>		