This paper gives an overview about what the Viterbi Algorithm is. It also talks about how the HMM(Hidden Markov Model) has been used to analyse the algorithm using observing a test sequence over a period of time N second for a moving body.This paper also talk about the error occurrence and how that can be minimized using proper verification of the problemetic sets of emissive values and calculated states. The Viterbi algorithm was invented by Andrew J. Viterbi in 1967 with a purpose for decoding the convolution codes along with analysing the error probability of such codes. One must apply this method because Viterbi Algorithm is highly useful for achieving low error rate data transmission by using maximum likelihood algorithm which matches the most expected pattern from the received data, hence giving most optimum result .There are any real time application where the algorithm can be applied for example speech recognition, finding health conditions of patient, event detection in video etc. We have seen how HMM takes hidden sequence as input and how the expected outcoming sequence finds proximity to its true state.