Abstract
Visionless persons find it very difficult to access the screen of computer and mobile. This article presents a preliminary novelty attempt towards the design of Computer Display Board (CBD) with the support of Braille language to solve the problem. Using basic logic designs the system converts computer screen information to Braille Computer Display Board (CBD) signals. A microchip design approach is undertaken in place of the complicated logic circuit to solve the problem. Synchronization table formed towards the implementation of English Digits and Alphabets to Braille Language is established. Simulation based experimental result analysis implemented in this paper with VHDL result considering the word "I LOVE INDIA". The entire process of the designed prototype is presented for Computer Display Board (CBD). This attempted research article strives to facilitate a cyber-communication facility for visionless people.

References


**Index Terms**

Computer Science  
Circuits And Systems

**Keywords**

Braille Computer  
Blind Display Board  
Braille Alphabet  
Braille Cell  
Logic Design.