

1. Why do we need to perform memory testing?

Answer:

We need to perform a memory testing to confirm that each storage location in a memory device is working. It is performed when prototype hardware is ready and the designer needs to verify that address and data lines are correctly wired and memory chips are working properly.

2. Implement the following using C/C++

Checksum

CRC (Cyclic Redundancy Check)

Note: Provide proper documentation in your code. Submit your github repo link.